

Test Date : 15 Mar 2023

Test Slot : Slot 1

Subject : 87-Computer Science and Applications

Paper I : 201-General Paper

Sl. No.1

QBID:30201001

The following table shows the number of Mobile Phones sold by five different sellers, A-E on seven different days (Monday to Sunday) in a week. Based on the data in the table, answer the questions.

Seller-wise Sale of Mobile Phones

Seller	Number of Mobile Phones sold on						
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
A	80	90	96	56	100	48	40
B	180	184	54	24	32	196	52
C	160	72	60	26	56	124	94
D	120	92	24	128	104	68	152
E	96	36	116	138	140	20	30

निम्नलिखित तालिका में किसी सप्ताह में सात भिन्न दिनों (सोमवार से रविवार) में पांच भिन्न विक्रेताओं A - E द्वारा बेचे गये मोबाइल फोन की संख्या प्रदर्शित की गई है। तालिका में दिए गए आँकड़ों पर आधारित प्रश्नों के उत्तर दीजिए :

विक्रेता - वार मोबाइल फोनों की बिक्री

विक्रेता	बेचे गए मोबाइल फोनों की संख्या						
	सोमवार	मंगलवार	बुधवार	गुरुवार	शुक्रवार	शनिवार	रविवार
A	80	90	96	56	100	48	40
B	180	184	54	24	32	196	52
C	160	72	60	26	56	124	94
D	120	92	24	128	104	68	152
E	96	36	116	138	140	20	30

What is the difference between the number of Mobile Phones sold by A and C together on Monday and that of D and E together on Wednesday?

1. 120
2. 100
3. 160
4. 40

- (1) 1
- (2) 2
- (3) 3
- (4) 4

सोमवार को A और C को एक साथ मिलाकर बेचे गए मोबाइल फोन की संख्या और बुधवार को D और E को एक साथ मिलाकर बेचे गये मोबाइल फोन की संख्या के मध्य अंतर कितना है ?

1. 120
2. 100
3. 160
4. 40

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=45501] Question Description : dwbv_pg_gp30_eng_2_q1
2[Option ID=45502]
3[Option ID=45503]
4[Option ID=45504]

Sl. No.2
QBID:30201002

The following table shows the number of Mobile Phones sold by five different sellers. A-E on seven different days (Monday to Sunday) in a week. Based on the data in the table, answer the questions.

Seller-wise Sale of Mobile Phones

Seller	Number of Mobile Phones sold on						
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
A	80	90	96	56	100	48	40
B	180	184	54	24	32	196	52
C	160	72	60	26	56	124	94
D	120	92	24	128	104	68	152
E	96	36	116	138	140	20	30

निम्नलिखित तालिका में किसी सप्ताह में सात भिन्न दिनों (सोमवार से रविवार) में पांच भिन्न विक्रेताओं A - E द्वारा बेचे गये मोबाइल फोन की संख्या प्रदर्शित की गई है। तालिका में दिए गए आँकड़ों पर आधारित प्रश्नों के उत्तर दीजिए :

विक्रेता - वार मोबाइल फोनों की बिक्री

विक्रेता	बेचे गए मोबाइल फोनों की संख्या						
	सोमवार	मंगलवार	बुधवार	गुरुवार	शुक्रवार	शनिवार	रविवार
A	80	90	96	56	100	48	40
B	180	184	54	24	32	196	52
C	160	72	60	26	56	124	94
D	120	92	24	128	104	68	152
E	96	36	116	138	140	20	30

The number of Mobile Phones sold by B on Tuesday and Saturday together is _____% more than the number of Mobile Phones sold by C on Thursday and Sunday together.

1. 162.33
2. 262.67
3. 216.67
4. 102.67

- (1) 1
(2) 2
(3) 3
(4) 4

मंगलवार और शनिवार को एक साथ मिलाकर B द्वारा बेचे गये मोबाइल फोन की संख्या गुरुवार और रविवार को एक साथ मिलाकर C द्वारा बेचे गये मोबाइल फोन की संख्या की तुलना में कितने प्रतिशत (%) अधिक है ?

1. 162.33
2. 262.67
3. 216.67
4. 102.67

- (1) 1
(2) 2
(3) 3
(4) 4

- 1[Option ID=45505]
2[Option ID=45506]
3[Option ID=45507]
4[Option ID=45508]

Question Description : dwbv_pg_gp30_eng_2_q2

Sl. No.3
QBID:30201003



The following table shows the number of Mobile Phones sold by five different sellers. A-E on seven different days (Monday to Sunday) in a week. Based on the data in the table, answer the questions.

Seller-wise Sale of Mobile Phones

Seller	Number of Mobile Phones sold on						
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
A	80	90	96	56	100	48	40
B	180	184	54	24	32	196	52
C	160	72	60	26	56	124	94
D	120	92	24	128	104	68	152
E	96	36	116	138	140	20	30

निम्नलिखित तालिका में किसी सप्ताह में सात भिन्न दिनों (सोमवार से रविवार) में पांच भिन्न विक्रेताओं A - E द्वारा बेचे गये मोबाइल फोन की संख्या प्रदर्शित की गई है। तालिका में दिए गए आँकड़ों पर आधारित प्रश्नों के उत्तर दीजिए :

विक्रेता - वार मोबाइल फोनों की बिक्री

विक्रेता	बेचे गए मोबाइल फोनों की संख्या						
	सोमवार	मंगलवार	बुधवार	गुरुवार	शुक्रवार	शनिवार	रविवार
A	80	90	96	56	100	48	40
B	180	184	54	24	32	196	52
C	160	72	60	26	56	124	94
D	120	92	24	128	104	68	152
E	96	36	116	138	140	20	30

The number of Mobile Phones sold by A and D together on Wednesday is _____% of the number of Mobile Phones sold by E on Sunday.

1. 400
2. 200
3. 100
4. 50

- (1) 1
- (2) 2
- (3) 3
- (4) 4

बुधवार को A और D द्वारा एक साथ मिलाकर बेचे गए मोबाइल फोन की संख्या रविवार को E द्वारा बेचे गए मोबाइल फोन की संख्या का कितना प्रतिशत है ?

1. 400
2. 200
3. 100
4. 50

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=45509]
2[Option ID=45510]
3[Option ID=45511]
4[Option ID=45512]

Question Description : dwbv_pg_gp30_eng_2_q3

Sl. No.4
QBID:30201004

The following table shows the number of Mobile Phones sold by five different sellers, A-E on seven different days (Monday to Sunday) in a week. Based on the data in the table, answer the questions.

Seller-wise Sale of Mobile Phones

Seller	Number of Mobile Phones sold on						
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
A	80	90	96	56	100	48	40
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C	160	72	60	26	56	124	94
D	120	92	24	128	104	68	152
E	96	36	116	138	140	20	30

निम्नलिखित तालिका में किसी सप्ताह में सात भिन्न दिनों (सोमवार से रविवार) में पांच भिन्न विक्रेताओं A - E द्वारा बेचे गये मोबाइल फोन की संख्या प्रदर्शित की गई है। तालिका में दिए गए आँकड़ों पर आधारित प्रश्नों के उत्तर दीजिए :

विक्रेता - वार मोबाइल फोनों की बिक्री

विक्रेता	बेचे गए मोबाइल फोनों की संख्या						
	सोमवार	मंगलवार	बुधवार	गुरुवार	शुक्रवार	शनिवार	रविवार
A	80	90	96	56	100	48	40
B	180	184	54	24	32	196	52
C	160	72	60	26	56	124	94
D	120	92	24	128	104	68	152
E	96	36	116	138	140	20	30

What is the average of the sale of Mobile Phones by B on Wednesday, E on Sunday, and D on Monday?

1. 48
2. 72
3. 60
4. 68

- (1) 1
- (2) 2
- (3) 3
- (4) 4

बुधवार को B, रविवार को E और सोमवार को D द्वारा की गई मोबाइल की बिक्री का औसत कितना है ?

1. 48
2. 72
3. 60
4. 68

- (1) 1
- (2) 2
- (3) 3

(4) 4

1[Option ID=45513] Question Description : dwbv_pg_gp30_eng_2_q4
2[Option ID=45514]
3[Option ID=45515]
4[Option ID=45516]

SI. No.5
QBID:30201005

The following table shows the number of Mobile Phones sold by five different sellers. A-E on seven different days (Monday to Sunday) in a week. Based on the data in the table, answer the questions.

Seller-wise Sale of Mobile Phones

Seller	Number of Mobile Phones sold on						
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
A	80	90	96	56	100	48	40
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D	120	92	24	128	104	68	152
E	96	36	116	138	140	20	30

निम्नलिखित तालिका में किसी सप्ताह में सात भिन्न दिनों (सोमवार से रविवार) में पांच भिन्न विक्रेताओं A - E द्वारा बेचे गये मोबाइल फोन की संख्या प्रदर्शित की गई है। तालिका में दिए गए आँकड़ों पर आधारित प्रश्नों के उत्तर दीजिए :

विक्रेता - वार मोबाइल फोनों की बिक्री

विक्रेता	बेचे गए मोबाइल फोनों की संख्या						
	सोमवार	मंगलवार	बुधवार	गुरुवार	शुक्रवार	शनिवार	रविवार
A	80	90	96	56	100	48	40
B	180	184	54	24	32	196	52
C	160	72	60	26	56	124	94
D	120	92	24	128	104	68	152
E	96	36	116	138	140	20	30

The Mobile Phones sold by A on Thursday are of two types, that is, Windows Phone and Android Phone, in the ratio 3:4. What is the number of Windows Phone sold by A on Thursday?

1. 28
2. 48
3. 32
4. 24

- (1) 1
- (2) 2
- (3) 3
- (4) 4

गुरुवार को A द्वारा दो प्रकार के मोबाइल फोन; विंडोज फोन और एंड्रॉयड फोन, को 3:4 के अनुपात में बेचा गया। गुरुवार को A द्वारा बेचे गए विंडोज फोन की संख्या कितनी है ?

1. 28
2. 48
3. 32
4. 24

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=45517] Question Description : dwbv_pg_gp30_eng_2_q5
2[Option ID=45518]
3[Option ID=45519]
4[Option ID=45520]

SI. No.6
QBID:30201006

How a teacher should deal with students for maintaining effective discipline in the classroom?

1. Deal with the students very strictly.
2. Allow students to do what they want to do.
3. Complaint about them to the principal for creating indiscipline in the class.
4. Deal with them politely and firmly.

- (1) 1
(2) 2
(3) 3
(4) 4

कक्षा में प्रभावी अनुशासन बनाये रखने के लिए किसी शिक्षक को विद्यार्थियों से कैसे निपटना चाहिए ?

1. विद्यार्थियों के साथ बहुत सख्त व्यवहार करना
2. विद्यार्थियों को जो वे करना चाहते हैं उसे करने की अनुमति प्रदान करना
3. कक्षा में अनुशासनहीनता करने के लिए उनके बारे में प्राचार्य से शिकायत करना
4. विनम्रता एवं दृढ़ता पूर्वक उनसे व्यवहार करना

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=45521] Question Description : dwbv_pg_gp30_eng_2_q6
2[Option ID=45522]
3[Option ID=45523]
4[Option ID=45524]

SI. No.7
QBID:30201007

Given below are two statements:

Statement I: Plateau is a period of no improvement in learning curve.

Statement II: In Plateau, the rate of learning first increases then decreases.

In light of the above statements, choose the most appropriate answer from the options given below:

1. Both Statement I and Statement II are correct.
2. Both Statement I and Statement II are incorrect.
3. Statement I is correct but Statement II is incorrect.
4. Statement I is incorrect but Statement II is correct.

(1) 1

(2) 2

(3) 3

(4) 4

नीचे दो कथन दिए गए हैं :

कथन - I : प्लेटो (स्थिर स्थिति) वह अवधि जिसमें अधिगम वक्र में कोई सुधार नहीं होता है।

कथन - II : स्थिर स्थिति (प्लेटो) में अधिगम की दर पहले बढ़ती है फिर घटती है।

उपर्युक्त कथनों के आलोक में निम्नलिखित विकल्पों में से सही उत्तर चुनें :

1. कथन I और II दोनों सही हैं।
2. कथन I और II दोनों गलत हैं।
3. कथन I सही है, किन्तु कथन II गलत है।
4. कथन I गलत है, किन्तु कथन II सही है।

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45525]

2[Option ID=45526]

3[Option ID=45527]

4[Option ID=45528]

Question Description : dwbv_pg_gp30_eng_2_q7

SI. No.8

QBID:30201008

Given below are two statements:

Statement I: In synchronous communication, interaction between teacher and student does not occur at the same instant of time.

Statement II: In Asynchronous communication, interaction between teacher and student occurs at the same instant of time.

In light of the above statements, choose the *correct* answer from the options given below:

1. Both Statement I and Statement II are true.
2. Both Statement I and Statement II are false.
3. Statement I is true but Statement II is false.
4. Statement I is false but Statement II is true.

(1) 1

(2) 2

(3) 3

(4) 4

नीचे दो कथन दिए गए हैं :

कथन - I : तुल्यकालिक संप्रेषण में, शिक्षक एवं विद्यार्थियों के मध्य अन्योन्यक्रिया उसी क्षण नहीं होती है।

कथन - II : अतुल्यकालिक संप्रेषण में शिक्षक एवं विद्यार्थियों के मध्य अन्योन्यक्रिया उसी क्षण होती है।

उपर्युक्त कथनों के आलोक में निम्नलिखित विकल्पों में से सही उत्तर चुनें :

1. कथन I और II दोनों सत्य हैं।
2. कथन I और II दोनों असत्य हैं।
3. कथन I सत्य है, किन्तु कथन II असत्य है।
4. कथन I असत्य है, किन्तु कथन II सत्य है।

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45529] Question Description : dwbv_pg_gp30_eng_2_q8
2[Option ID=45530]
3[Option ID=45531]
4[Option ID=45532]

Sl. No.9

QBID:30201009

Which of the following are the primary laws of learning?

- A. Law of exercise
- B. Law of partial activity
- C. Law of readiness
- D. Law of associative shifting
- E. Law of effect

Choose the *correct* answer from the options given below:

1. A, B and D only
2. A, C and E only
3. B, D and E only
4. A, B, C and D only

(1) 1

(2) 2

(3) 3

(4) 4

अधिगम के प्राथमिक नियम निम्नलिखित में से कौन से हैं ?

- A. अभ्यास का नियम
- B. आंशिक गतिविधि का नियम
- C. तत्परता का नियम
- D. सहचारी स्थानांतरण का नियम
- E. प्रभाव का नियम

नीचे दिए गए विकल्पों में से सही उत्तर चुनें :

- 1. केवल A, B और D
- 2. केवल A, C और E
- 3. केवल B, D और E
- 4. केवल A, B, C और D

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45533]

2[Option ID=45534]

3[Option ID=45535]

4[Option ID=45536]

Question Description : dwbv_pg_gp30_eng_2_q9

SI. No.10

QBID:30201010

Given below are two statements:

Statement I: Podcasts are digital audio or video files containing meaningful content.

Statement II: Blogs are personal websites that contain content like a Journal or diary.

In light of the above statements, choose the *correct* answer from the options given below:

- 1. Both Statement I and Statement II are true.
- 2. Both Statement I and Statement II are false.
- 3. Statement I is true but Statement II is false.
- 4. Statement I is false but Statement II is true.

(1) 1

(2) 2

(3) 3

(4) 4

नीचे दो कथन दिए गए हैं :

कथन - I : पॉडकास्ट, अर्थवान विषय वस्तु से युक्त डिजिटल श्रव्य (ऑडियो) या दृश्य (विडियो) फाइलें होती हैं।

कथन - II : ब्लॉग व्यक्तिगत वेबसाइट हैं जिनमें जर्नल या डायरी से सदृश विषय वस्तु होती है।

उपर्युक्त कथनों के आलोक में निम्नलिखित विकल्पों में से सही उत्तर चुनें :

- 1. कथन I और II दोनों सत्य हैं।
- 2. कथन I और II दोनों असत्य हैं।
- 3. कथन I सत्य है, किन्तु कथन II असत्य है।
- 4. कथन I असत्य है, किन्तु कथन II सत्य है।

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=45537] Question Description : dwbv_pg_gp30_eng_2_q10
2[Option ID=45538]
3[Option ID=45539]
4[Option ID=45540]

SI. No.11
QBID:30201011

Coding research participants into qualitative variables as male and female represents

- 1. The Thurstone scale
- 2. The Likert scale
- 3. The differential scale
- 4. The nominal scale

- (1) 1
- (2) 2
- (3) 3
- (4) 4

शोध प्रतिभागियों को पुरुष और नारी के रूप में गुणवत्तापरक चरों में कूटबद्ध करना निम्नलिखित में से किसको निरूपित करता है ?

- 1. थर्स्टोन मापनी (स्केल)
- 2. लिकर्ट मापनी (स्केल)
- 3. विभेदक मापनी (स्केल)
- 4. नामिक मापनी (स्केल)

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=45541] Question Description : dwbv_pg_gp30_eng_2_q11
2[Option ID=45542]
3[Option ID=45543]
4[Option ID=45544]

SI. No.12
QBID:30201012

When observations are classified by social scientists into a system of categorisation, it needs

- 1. Conviction
- 2. Accuracy
- 3. Limited condtions
- 4. Hypotheses

- (1) 1
- (2) 2
- (3) 3
- (4) 4

जब समाजविज्ञानियों द्वारा प्रेक्षणों को वर्गीकरण की एक प्रणाली में वर्गीकृत किया जाता है तो इसमें क्या आवश्यक है ?

- 1. दृढ़ धारणा
- 2. यथातथ्यता (सटीकता)
- 3. सीमित स्थितियां
- 4. प्राक्कल्पनाएँ

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=45545] Question Description : dwbv_pg_gp30_eng_2_q12
2[Option ID=45546]
3[Option ID=45547]
4[Option ID=45548]

SI. No.13
QBID:30201013

When a fixed list of questions is administered to all the participants in the same order, it is known as

- 1. Summative interview
- 2. Structured interview
- 3. Formative interview
- 4. Fixed question interview

- (1) 1
- (2) 2
- (3) 3
- (4) 4

जब प्रश्नों की एक नियत सूची समान क्रम में सभी प्रतिभागियों को दी जाती है तो इसे किस रूप में जाना जाता है ?

- 1. संकलनात्मक साक्षात्कार
- 2. संरचित साक्षात्कार
- 3. निर्माणात्मक साक्षात्कार
- 4. नियत प्रश्न साक्षात्कार

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=45549] Question Description : dwbv_pg_gp30_eng_2_q13
2[Option ID=45550]
3[Option ID=45551]
4[Option ID=45552]

SI. No.14
QBID:30201014

Which of the following are experimental manipulations?

- A. Environmental manipulation
- B. Stimulus manipulation
- C. Instructional manipulation
- D. Planning manipulation
- E. Decision manipulation

Choose the *correct* answer from the options given below:

- 1. A, B and C only
- 2. B, C and D only
- 3. C, D and E only
- 4. A, D and E only

- (1) 1
- (2) 2
- (3) 3

(4) 4

निम्नलिखित में से कौन से प्रयोगात्मक छलयोजन हैं ?

- A. पर्यावरणीय छलयोजन
- B. उद्दीपन संबंधी छलयोजन
- C. अनुदेशात्मक छलयोजन
- D. नियोजन संबंधी छलयोजन
- E. निर्णय संबंधी छलयोजन

नीचे दिए गए विकल्पों में से सही उत्तर चुनें :

- 1. केवल A, B और C
- 2. केवल B, C और D
- 3. केवल C, D और E
- 4. केवल A, D और E

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45553]

2[Option ID=45554]

3[Option ID=45555]

4[Option ID=45556]

Question Description : dwbv_pg_gp30_eng_2_q14

SI. No.15

QBID:30201015

Given below are two statements:

Statement I: The conceptual variable to be converted into a scientifically researchable variable involves redefining the abstraction of a conceptual variable into an empirical one.

Statement II: Clear and detailed procedures and instruments to make the actual observations should be specified so that other researchers/scientists do not duplicate the observations.

In light of the above statements, choose the *correct* answer from the options given below:

- 1. Both Statement I and Statement II are true.
- 2. Both Statement I and Statement II are false.
- 3. Statement I is true but Statement II is false.
- 4. Statement I is false but Statement II is true.

(1) 1

(2) 2

(3) 3

(4) 4

नीचे दो कथन दिए गए हैं :

कथन - I : एक वैज्ञानिक रूप से शोधयोग्य चर में रूपांतरित होने वाले अवधारणात्मक चर में एक आनुभविक चर में एक अवधारणात्मक चर के अमूर्तन को पुनर्परिभाषित करना सम्मिलित है।

कथन - II : वास्तविक प्रेक्षणों को बनाने के लिए स्पष्ट और विस्तृत पद्धतियों एवं साधनों को विनिर्दिष्ट किया जाना चाहिए ताकि अन्य शोधकर्ता और वैज्ञानिक उक्त प्रेक्षणों की अनुलिपि न बनाएं।

उपर्युक्त कथनों के आलोक में निम्नलिखित विकल्पों में से सही उत्तर चुनें :

1. कथन I और II दोनों सत्य हैं।
2. कथन I और II दोनों असत्य हैं।
3. कथन I सत्य है, किन्तु कथन II असत्य है।
4. कथन I असत्य है, किन्तु कथन II सत्य है।

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45557] Question Description : dwbv_pg_gp30_eng_2_q15
2[Option ID=45558]
3[Option ID=45559]
4[Option ID=45560]

Sl. No.16
QBID:30201016

The digital technology is the factor responsible for the emergence of

1. Mass media culture
2. Inter-active media culture
3. Impersonal media culture
4. Personal media culture

(1) 1

(2) 2

(3) 3

(4) 4

निम्नलिखित में से किसके अविर्भाव के लिए डिजिटल प्रौद्योगिकी का कारक उत्तरदायी है ?

1. जन संचार माध्यम (मास मीडिया) संस्कृति
2. अंतर्क्रियात्मक मीडिया संस्कृति
3. अंतर्वैयक्तिक मीडिया संस्कृति
4. वैयक्तिक मीडिया संस्कृति

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45561] Question Description : dwbv_pg_gp30_eng_2_q16
2[Option ID=45562]
3[Option ID=45563]
4[Option ID=45564]

Sl. No.17
QBID:30201017

The space bias in communication is related to

1. Oral medium
2. Traditional medium
3. Broadcast medium
4. Print medium

(1) 1

(2) 2

(3) 3

(4) 4

सम्प्रेषण में स्थान - पूर्वाग्रह किससे संबंधित है ?

1. मौखिक माध्यम
2. पारम्परिक माध्यम
3. प्रसारण माध्यम
4. मुद्रण माध्यम

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45565]
2[Option ID=45566]
3[Option ID=45567]
4[Option ID=45568]

Question Description : dwbv_pg_gp30_eng_2_q17

Sl. No.18
QBID:30201018

Which of the following are to be carefully observed and followed while writing?

- A. Long introduction
- B. Abrupt end
- C. Relevant content
- D. Correct syntax
- E. Diction and punctuation marks.

Choose the *correct* answer from the options given below:

1. A, B and C only
2. B, C and D only
3. C, D and E only
4. A, C and E only

(1) 1

(2) 2

(3) 3

(4) 4

लेखन करते समय निम्नलिखित में से किनका सावधानीपूर्वक प्रेक्षण और अनुसरण किया जाता है ?

- A. लंबी प्रस्तावना
- B. आकस्मिक अंत
- C. प्रासंगिक विषयवस्तु
- D. सही वाक्य - विन्यास
- E. शब्द - चयन (डिक्शन) और विरामादि विधान

नीचे दिए गए विकल्पों में से सही उत्तर चुनें :

- 1. केवल A, B और C
- 2. केवल B, C और D
- 3. केवल C, D और E
- 4. केवल A, C और E

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45569] Question Description : dwbv_pg_gp30_eng_2_q18
2[Option ID=45570]
3[Option ID=45571]
4[Option ID=45572]

SI. No.19
QBID:30201019

Given below are two statements:

Statement I: The difference between hot and cool media is measured in terms of volumes of information.

Statement II: Virtual reality did not exist at the time of making this distinction between hot and cool media.

In light of the above statements, choose the *correct* answer from the options given below:

- 1. Both Statement I and Statement II are true.
- 2. Both Statement I and Statement II are false.
- 3. Statement I is true but Statement II is false.
- 4. Statement I is false but Statement II is true.

(1) 1

(2) 2

(3) 3

(4) 4

नीचे दो कथन दिए गए हैं :

कथन - I : उत्तेजक और धीर-गंभीर (हॉट एंड कूल) मीडिया के बीच अंतर को सूचना परिमाण के संदर्भ में मापा जाता है।

कथन - II : आभासी यथार्थता का उत्तेजक और धीर-गंभीर मीडिया के बीच विभेद करते समय अस्तित्व नहीं था।

उपर्युक्त कथनों के आलोक में निम्नलिखित विकल्पों में से सही उत्तर चुनें :

- 1. कथन I और II दोनों सत्य हैं।
- 2. कथन I और II दोनों असत्य हैं।
- 3. कथन I सत्य है, किन्तु कथन II असत्य है।
- 4. कथन I असत्य है, किन्तु कथन II सत्य है।

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=45573] Question Description : dwbv_pg_gp30_eng_2_q19
2[Option ID=45574]
3[Option ID=45575]
4[Option ID=45576]

SI. No.20
QBID:30201020

Given below are two statements:

Statement I: It is said that content of one medium itself is another medium.

Statement II: Just like the written word is content in print, the content of writing can also be called as speech.

In light of the above statements, choose the *correct* answer from the options given below:

- 1. Both Statement I and Statement II are true.
- 2. Both Statement I and Statement II are false.
- 3. Statement I is true but Statement II is false.
- 4. Statement I is false but Statement II is true.

- (1) 1
- (2) 2
- (3) 3
- (4) 4

नीचे दो कथन दिए गए हैं :

कथन - I : यह कहा जाता है कि एक माध्यम की विषयवस्तु अपने आपमें अन्य माध्यम है।

कथन - II : जिस तरह लिखित शब्द, मुद्रण में विषयवस्तु है, उसी तरह लेखन की विषयवस्तु को वाक् (स्पीच) भी कहा जा सकता है।

उपर्युक्त कथनों के आलोक में निम्नलिखित विकल्पों में से सही उत्तर चुनें :

- 1. कथन I और II दोनों सत्य हैं।
- 2. कथन I और II दोनों असत्य हैं।
- 3. कथन I सत्य है, किन्तु कथन II असत्य है।
- 4. कथन I असत्य है, किन्तु कथन II सत्य है।

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=45577] Question Description : dwbv_pg_gp30_eng_2_q20
2[Option ID=45578]
3[Option ID=45579]
4[Option ID=45580]

SI. No.21
QBID:30201021

A four directional pole, has been erected at a crossroad, with arrows pointing towards four directions East, West, North and South. The pole got little damaged due to certain reason. Because of the damage, the North pointer of the pole is now pointing towards East and like wise other pointers have also shifted. A man desiring to go towards West takes the help of this pole and starts moving West as per pointers of the pole. In which directions is the man actually moving?

1. West
2. South
3. East
4. North

- (1) 1
(2) 2
(3) 3
(4) 4

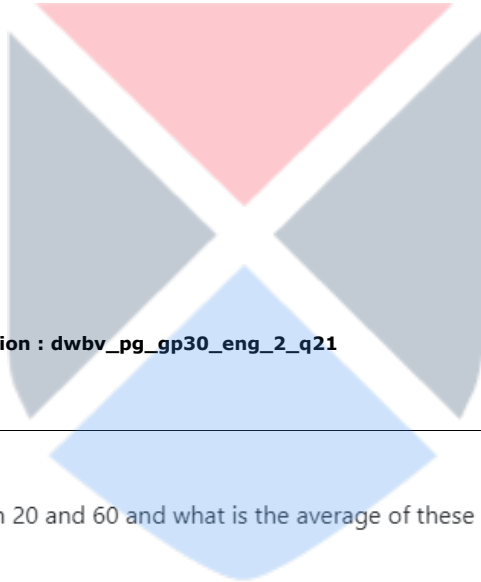
एक चार दिशिक खंभा चौराहे पर खड़ा किया गया है जिसपर लगे तीर पूर्व, पश्चिम, उत्तर व दक्षिण दिशाओं की ओर संकेत कर रहे हैं। किसी कारणवश खंभा थोड़ा क्षतिग्रस्त हो गया। क्षति के कारण उत्तर दिशा का संकेतक अब पूर्व दिशा की ओर संकेत कर रहा है और इसी प्रकार अन्य संकेतक भी बदल गए हैं। पश्चिम की ओर जाने का इच्छुक व्यक्ति इस खम्भे की सहायता लेता है और खंभे के संकेतक अनुसार पश्चिम की ओर चलना आरंभ कर देता है। वह व्यक्ति वास्तव में किस दिशा में चल रहा है ?

1. पश्चिम
2. दक्षिण
3. पूर्व
4. उत्तर

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=45581]
2[Option ID=45582]
3[Option ID=45583]
4[Option ID=45584]

Question Description : dwbv_pg_gp30_eng_2_q21



SI. No.22
QBID:30201022

How many prime numbers exist between 20 and 60 and what is the average of these prime numbers?

1. 7, 41.5
2. 9, 40.33
3. 8, 39.5
4. 10, 42.33

- (1) 1
(2) 2
(3) 3
(4) 4

20 व 60 के बीच कितनी अभाज्य संख्याएं हैं और उन अभाज्य संख्याओं का औसत क्या है ?

1. 7, 41.5
2. 9, 40.33
3. 8, 39.5
4. 10, 42.33

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=45585]
2[Option ID=45586]
3[Option ID=45587]
4[Option ID=45588]

Question Description : dwbv_pg_gp30_eng_2_q22

SI. No.23
QBID:30201023

The average age of seven members of a family is 35 years. If one of the members whose age is 35 years is not included, then the age of other six family members is in the ratio of 1:2:3:4:5:6. Find the age of the eldest member of the family.

1. 60 years
2. 65 years
3. 61 years
4. 58 years

- (1) 1
(2) 2
(3) 3
(4) 4

एक परिवार के सात सदस्यों की औसत आयु 35 वर्ष है। यदि एक सदस्य, जिसकी आयु 35 वर्ष है, इसमें सम्मिलित न किया जाए, तो अन्य छह सदस्यों की आयु का अनुपात 1:2:3:4:5:6 होगा। परिवार के सबसे बड़े सदस्य की आयु का पता लगाइये :

1. 60 वर्ष
2. 65 वर्ष
3. 61 वर्ष
4. 58 वर्ष

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=45589]
2[Option ID=45590]
3[Option ID=45591]
4[Option ID=45592]

Question Description : dwbv_pg_gp30_eng_2_q23

SI. No.24
QBID:30201024

If A is coded as C, B as D, C as E and so on, then code the following:

'CONFIDENTIAL'

1. EQPHKFGKVNC
2. EQRIKFHQWLEN
3. DQQHLLFGPWLDN
4. EQPHKFGPVKCN

- (1) 1
(2) 2
(3) 3
(4) 4

यदि A को C के रूप में B को D, C को E और इसी प्रकार आगे के अक्षरों को कूटबद्ध किया जाए, तो 'CONFIDENTIAL' को कूटबद्ध कीजिए :

1. EQPHKFGKVNC
2. EQRIKFHQWLEN
3. DQQHLLFGPWLDN
4. EQPHKFGPVKCN

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=45593] Question Description : dwbv_pg_gp30_eng_2_q24
2[Option ID=45594]
3[Option ID=45595]
4[Option ID=45596]

SI. No.25
QBID:30201025

Which number can replace question mark(?) in the series given below?

1, 7, 17, 31, ?, 71

- 1. 47
- 2. 49
- 3. 41
- 4. 60

- (1) 1
- (2) 2
- (3) 3
- (4) 4

नीचे दी गई श्रृंखला में प्रश्नवाचक चिन्ह (?) को कौन सी संख्या प्रतिस्थापित करेगी ?

1, 7, 17, 31, ?, 71

- 1. 47
- 2. 49
- 3. 41
- 4. 60

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=45597] Question Description : dwbv_pg_gp30_eng_2_q25
2[Option ID=45598]
3[Option ID=45599]
4[Option ID=45600]

SI. No.26
QBID:30201026

" Mr. Kubra is a murderer because he wrongfully killed someone." Which fallacy is committed in the above argument?

- 1. Begging the question
- 2. Ad hominem
- 3. Hasty Generalisation
- 4. Equivocation

- (1) 1
- (2) 2
- (3) 3
- (4) 4

"श्री कुब्रा एक हत्यारा है क्योंकि उसने गलत तरीके से किसी को मार डाला है।" उपर्युक्त युक्ति में कौनसा तर्क - दोष है ?

1. आत्माश्रय दोष
2. व्यक्तिविशेष के लिए (एड होमिनेम)
3. अविचारी सामान्यीकरण
4. अनेकार्थक

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45601] Question Description : dwbv_pg_gp30_eng_2_q26
2[Option ID=45602]
3[Option ID=45603]
4[Option ID=45604]

SI. No.27
QBID:30201027

Which of the following statements is logically equivalent to the statement-"some plants are carnivorous organisms."?

1. No carnivorous organisms are plants.
2. Some plants are non-carnivorous organisms.
3. No plants are non-carnivorous organisms.
4. Some plants are not non-carnivorous organisms.

(1) 1

(2) 2

(3) 3

(4) 4

निम्नलिखित में से कौनसा कथन तार्किक रूप से इस कथन के समतुल्य है - "कुछ पादप मांसाहारी जीव होते हैं"?

1. कोई भी मांसाहारी जीव पादप नहीं होता है।
2. कुछ पादप गैर - मांसाहारी जीव होते हैं।
3. कोई भी पादप गैर - मांसाहारी जीव नहीं होता है।
4. कुछ पादप गैर-मांसाहारी जीव नहीं होते हैं।

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45605] Question Description : dwbv_pg_gp30_eng_2_q27
2[Option ID=45606]
3[Option ID=45607]
4[Option ID=45608]

SI. No.28
QBID:30201028

"Supporters of the ABC Political Party are against gun control and Republicans are also against gun control, so some Republicans must be supporters of ABC Political Party." Identify the fallacy in the above argument.

1. Affirming the consequent
2. Denying the antecedent
3. Ad hominem
4. Undistributed Middle

(1) 1

(2) 2

(3) 3

(4) 4

"ए बी सी राजनैतिक दल के समर्थक बंदूक - नियंत्रण के विरुद्ध हैं, और रिपब्लिकन भी बंदूक - नियंत्रण के विरुद्ध हैं, इसलिए कुछ रिपब्लिकन ए बी सी राजनैतिक दल के समर्थक होने चाहिए।" उपरोक्त युक्ति में विद्यमान तर्कदोष को चिन्हित कीजिए ?

1. फलवाक्य - विधान
2. हेतुवाक्य - निषेध
3. एड होमिनेम
4. अव्याप्त हेतु

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45609] Question Description : dwbv_pg_gp30_eng_2_q28
2[Option ID=45610]
3[Option ID=45611]
4[Option ID=45612]

SI. No.29

QBID:30201029

Which of the following statements are contrary to each other?

- A. All human beings are mortal.
- B. No human beings are mortal.
- C. Some human beings are mortal.
- D. Some human beings are not mortal.

Choose the *correct* answer from the options given below:

1. A and D only
2. B and C only
3. A and B only
4. A and C only

(1) 1

(2) 2

(3) 3

(4) 4

निम्नलिखित में से कौन से कथन एक दूसरे के विपरीत हैं ?

- A. सभी मनुष्य नश्वर होते हैं।
- B. कोई भी मनुष्य नश्वर नहीं होता है।
- C. कुछ मनुष्य नश्वर होते हैं।
- D. कुछ मनुष्य नश्वर नहीं होते हैं।

नीचे दिए गए विकल्पों में से सही उत्तर चुनें :

1. केवल A और D
2. केवल B और C
3. केवल A और B
4. केवल A और C

(1) 1

- (2) 2
(3) 3
(4) 4

1[Option ID=45613] Question Description : dwbv_pg_gp30_eng_2_q29
2[Option ID=45614]
3[Option ID=45615]
4[Option ID=45616]

SI. No.30
QBID:30201030

Which of the following sources of knowledge according to classical Indian school of logic is defined as a statement of a trustworthy person(āptavākya) and consists of understanding its meaning?

1. Śabda
2. Anumāna
3. Upamāna
4. Anuplabdhi

- (1) 1
(2) 2
(3) 3
(4) 4

भारतीय शास्त्रीय तर्क मत के अनुसार निम्नलिखित में से ज्ञान के किस स्रोत को आप्तवाक्य (विश्वसनीय व्यक्ति का कथन) के रूप में परिभाषित किया गया है और जिसमें इसके अर्थ का बोध शामिल है ?

1. शब्द
2. अनुमान
3. उपमान
4. अनुपलब्धि

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=45617] Question Description : dwbv_pg_gp30_eng_2_q30
2[Option ID=45618]
3[Option ID=45619]
4[Option ID=45620]

SI. No.31
QBID:30201031

Which is the smallest of these data storage capacities?

1. 2 KB
2. 2049 Bytes
3. 0.5 MB
4. 3 GB

- (1) 1
(2) 2
(3) 3
(4) 4

निम्नलिखित आंकड़ा (डेटा) भंडारण क्षमताओं में से लघुत्तम कौन सी है ?

1. 2 केबी
2. 2049 बाईट
3. 0.5 एमबी
4. 3 जीबी

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=45621] Question Description : dwbv_pg_gp30_eng_2_q31
2[Option ID=45622]
3[Option ID=45623]
4[Option ID=45624]

SI. No.32
QBID:30201032

Which of the following communication systems would best enable a meeting to take place between people working in different locations?

- 1. VoIP
- 2. Email
- 3. Voicemail
- 4. Text messaging

- (1) 1
- (2) 2
- (3) 3
- (4) 4

निम्नलिखित संचार प्रणालियों में से कौन सी प्रणाली भिन्न - भिन्न स्थानों पर कार्यरत व्यक्तियों के बीच बैठक के आयोजन को परिचालित करने हेतु सर्वोत्तम होगी ?

- 1. वी ओ आई पी
- 2. ईमेल
- 3. वॉइस मेल
- 4. पाठ सन्देश (टेक्स्ट मैसेज)

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=45625] Question Description : dwbv_pg_gp30_eng_2_q32
2[Option ID=45626]
3[Option ID=45627]
4[Option ID=45628]

SI. No.33
QBID:30201033

Given below are two statements:

Statement I: Wireless (Wi-Fi) networks are less secure than hard-wired systems.

Statement II: A series of digital media files that are released at regular intervals and downloaded to the user's computer are known as Podcasts. These media files are stored and maintained centrally.

In light of the above statements, choose the *correct* answer from the options given below:

- 1. Both Statement I and Statement II are true.
- 2. Both Statement I and Statement II are false.
- 3. Statement I is true but Statement II is false.
- 4. Statement I is false but Statement II is true.

- (1) 1
- (2) 2
- (3) 3
- (4) 4

नीचे दो कथन दिए गए हैं :

कथन - I : बेतार (वाई-फाई) नेटवर्क कठोर - तार वाली प्रणालियों की तुलना में कम सुरक्षित होते हैं।

कथन - II : नियमित अंतरालों पर जारी और प्रयोक्ता के कंप्यूटर में डाउनलोड की गई डिजिटल मीडिया फाइलों की श्रृंखला को पॉडकास्ट के रूप में जाना जाता है। इन मीडिया फाइलों का भंडारण व देखभाल केंद्रीय रूप से किया जाता है।

उपर्युक्त कथनों के आलोक में निम्नलिखित विकल्पों में से सही उत्तर चुनें :

1. कथन I और II दोनों सत्य हैं।
2. कथन I और II दोनों असत्य हैं।
3. कथन I सत्य है, किन्तु कथन II असत्य है।
4. कथन I असत्य है, किन्तु कथन II सत्य है।

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45629] Question Description : dwbv_pg_gp30_eng_2_q33
2[Option ID=45630]
3[Option ID=45631]
4[Option ID=45632]

SI. No.34

QBID:30201034

Which of the following are computer input devices that can best support students with a visual impairment?

- A. Microphone
- B. Foot mouse
- C. Braille keyboard
- D. Joystick
- E. Speaker

Choose the *correct* answer from the options given below:

1. A and B only
2. B and D only
3. C, D and E only
4. A and C only

(1) 1

(2) 2

(3) 3

(4) 4

निम्नलिखित में से कौन - कौन सी कंप्यूटर निविष्ट युक्ति दृष्टि बाध्यता वाले विद्यार्थियों के लिए सर्वोत्तम सहायक है ?

- A. माइक्रोफोन
- B. फुट माउस
- C. ब्रेल कीबोर्ड
- D. जॉयस्टिक
- E. स्पीकर

नीचे दिए गए विकल्पों में से सही उत्तर चुनें :

- 1. केवल A और B
- 2. केवल B और D
- 3. केवल C, D और E
- 4. केवल A और C

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=45633] Question Description : dwbv_pg_gp30_eng_2_q34
2[Option ID=45634]
3[Option ID=45635]
4[Option ID=45636]

SI. No.35
QBID:30201035

Match List I with List II

List I (Internet term)	List II (Description)
A. Blogs	I. Include software that allows users to create and edit web pages using a browser. Anyone is able to create or edit this information
B. Social Networking sites	II. A type of bookmarking where a user "marks" a webpage or photo using text to describe its contents. Anyone can view the webpages or photos corresponding to these "markers".
C. Tagging	III. Allow interaction of people online. Users can add friends, post messages and update their personal profiles to notify friends about their status.
D. Wikis	IV. Personal internet journals where a writer enters text about a particular topic or person; anyone can comment on topic.

Choose the correct answer from the options given below:

- 1. A - III, B - II, C - I, D - IV
- 2. A - II, B - I, C - III, D - IV
- 3. A - I, B - II, C - III, D - IV
- 4. A - IV, B - III, C - II, D - I

- (1) 1
- (2) 2
- (3) 3
- (4) 4

सूची -I को सूची -II से सुमेलित कीजिए :

सूची - I (इंटरनेट पद)	सूची - II (विवरण)
A. ब्लॉग	I. इसमें वह सॉफ्टवेयर शामिल है जो प्रयोक्ता को ब्राउजर की सहायता से वेब पृष्ठ बनाने और संपादित करने देता है। कोई भी इस सूचना की रचना अथवा संपादन कर सकता है।
B. सोशल नेटवर्किंग साइट	II. एक प्रकार का पुस्तक चिन्ह जिसमें प्रयोक्ता किसी वेब पृष्ठ अथवा चित्र की अंतर्वस्तु का वर्णन करने के लिए पाठ का प्रयोग कर उसे 'चिन्हित' कर देता है। कोई भी व्यक्ति इन 'चिन्हों' के समकक्ष वेब पृष्ठों अथवा चित्रों को देख सकता है।
C. टैगिंग	III. व्यक्तियों की ऑनलाइन अंतर्क्रिया की अनुमति देता है। प्रयोक्ता मित्रों को जोड़ सकते हैं सन्देश प्रेषित कर सकते हैं और अपने मित्रों को अपनी स्थिति के बारे में सूचित करने के लिए अपनी व्यक्तिगत प्रोफाइल को अद्यतन कर सकते हैं।
D. विकीज	IV. वैयक्तिक इंटरनेट जर्नल जिसमें कोई लेखक किसी विषय अथवा व्यक्ति के बारे में पाठ की प्रविष्टि करता है: कोई भी इस विषय पर टिप्पणी कर सकता है।

नीचे दिए गए विकल्पों में से सही उत्तर चुनिए :

1. A - III, B - II, C - I, D - IV
2. A - II, B - I, C - III, D - IV
3. A - I, B - II, C - III, D - IV
4. A - IV, B - III, C - II, D - I

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=45637]
2[Option ID=45638]
3[Option ID=45639]
4[Option ID=45640]

Question Description : dwbv_pg_gp30_eng_2_q35

SI. No.36
QBID:30201036

Which of the following Sustainable Development Goals (SDGs) pertains to climate action?

1. SDG 11
2. SDG 12
3. SDG 13
4. SDG 14

- (1) 1
- (2) 2
- (3) 3
- (4) 4

निम्नलिखित में से कौन सा सतत विकास लक्ष्य (एसडीजी) जलवायु संबंधी कार्यवाही से संबंधित है ?

1. एस डी जी 11
2. एस डी जी 12
3. एस डी जी 13
4. एस डी जी 14

- (1) 1

- (2) 2
(3) 3
(4) 4

1[Option ID=45641] Question Description : dwbv_pg_gp30_eng_2_q36
2[Option ID=45642]
3[Option ID=45643]
4[Option ID=45644]

SI. No.37
QBID:30201037

Given below are two statements:

Statement I: International Solar Alliance (ISA) is an alliance of countries most of which lie between tropic of cancer and pole.

Statement II: Presently, ISA is headed by India.

In light of the above statements, choose the most appropriate answer from the options given below:

1. Both Statement I and Statement II are correct.
2. Both Statement I and Statement II are incorrect.
3. Statement I is correct but Statement II is incorrect.
4. Statement I is incorrect but Statement II is correct.

- (1) 1
(2) 2
(3) 3
(4) 4

नीचे दो कथन दिए गए हैं :

कथन - I : अंतर्राष्ट्रीय सौर संधि (आईएसए) ऐसे देशों की संधि है जिसमें से अधिकतर कर्क रेखा और ध्रुव के मध्य हैं।

कथन - II : वर्तमान में आई एस ए का अध्यक्ष भारत है।

उपर्युक्त कथनों के आलोक में निम्नलिखित विकल्पों में से सही उत्तर चुनें :

1. कथन I और II दोनों सही हैं।
2. कथन I और II दोनों गलत हैं।
3. कथन I सही है, किन्तु कथन II गलत है।
4. कथन I गलत है, किन्तु कथन II सही है।

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=45645] Question Description : dwbv_pg_gp30_eng_2_q37
2[Option ID=45646]
3[Option ID=45647]
4[Option ID=45648]

SI. No.38
QBID:30201038

Halons, kinds of Ozone Depleting Substances(ODS), were essentially and widely used in

1. Refrigerators
2. Air conditioners
3. Aerosol spray propellents
4. Fire Extinguishers

- (1) 1
(2) 2
(3) 3

(4) 4

ओजोन अवक्षयी पदार्थों (ओडीएस) के प्रकार हेलॉन्स निम्नलिखित में से किस में अनिवार्य और व्यापक रूप से प्रयोग किए जाते थे ?

1. रेफ्रिजरेटर
2. एअर कंडीशनर
3. ऐरोसॉल स्प्रे नोदक
4. अग्निशामक

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45649] Question Description : dwbv_pg_gp30_eng_2_q38
2[Option ID=45650]
3[Option ID=45651]
4[Option ID=45652]

SI. No.39
QBID:30201039

Kyoto Protocol(1997) was about

1. Protection of ozone layer
2. Reduction in Green House Gas emissions
3. Conservation of Biodiversity
4. Limiting the rise in global temperature to 2⁰C above pre-industrial times.

(1) 1

(2) 2

(3) 3

(4) 4

क्योटो प्रोटोकॉल (1997) निम्नलिखित में से किसके बारे में था ?

1. ओजोन परत का संरक्षण
2. ग्रीन हाउस गैस उत्सर्जन को घटाने के लिए
3. जैव विविधता का संरक्षण
4. वैश्विक तापवृद्धि को प्राक-औद्योगिक काल से 2° सेल्सियस तक सीमित रखना

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45653] Question Description : dwbv_pg_gp30_eng_2_q39
2[Option ID=45654]
3[Option ID=45655]
4[Option ID=45656]

SI. No.40
QBID:30201040

Schistosomiasis, a water associated disease, is caused by

1. Ingestion of contaminated water
2. Contact with contaminated water
3. Lack of sufficient water to maintain cleanliness
4. Vectors grown on contaminated water

(1) 1

(2) 2

(3) 3

(4) 4

जल संबंधित रोग शिस्टोसोमिएसिस निम्नलिखित में से किसके द्वारा होता है ?

1. संदूषित जल के अंतर्ग्रहण से
2. संदूषित जल के साथ संपर्क से
3. सफाई की देखरेख के लिए पर्याप्त जल के अभाव से
4. संदूषित जल पर पनपे रोगवाहकों से

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45657] Question Description : dwbv_pg_gp30_eng_2_q40

2[Option ID=45658]

3[Option ID=45659]

4[Option ID=45660]

Sl. No.41

QBID:30201041

Given below are two statements:

Statement I: According to NEP 2020, Teaching and learning of Indian languages need to be integrated with school and higher education at every level.

Statement II: UNESCO has declared 220 Indian languages as 'endangered'.

In light of the above statements, choose the *correct* answer from the options given below:

1. Both Statement I and Statement II are true.
2. Both Statement I and Statement II are false.
3. Statement I is true but Statement II is false.
4. Statement I is false but Statement II is true.

(1) 1

(2) 2

(3) 3

(4) 4

नीचे दो कथन दिए गए हैं :

कथन - I : एनईपी 2020 के अनुसार भारतीय भाषाओं के शिक्षण व अधिगम को प्रत्येक स्तर पर स्कूली व उच्च शिक्षा के साथ समेकित करने की आवश्यकता है।

कथन - II : यूनेस्को ने 220 भारतीय भाषाओं को संकटापन्न (एनडेंजर्ड) घोषित किया है।

उपर्युक्त कथनों के आलोक में निम्नलिखित विकल्पों में से सही उत्तर चुनें :

1. कथन I और II दोनों सत्य हैं।
2. कथन I और II दोनों असत्य हैं।
3. कथन I सत्य है, किन्तु कथन II असत्य है।
4. कथन I असत्य है, किन्तु कथन II सत्य है।

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45661] Question Description : dwbv_pg_gp30_eng_2_q41

2[Option ID=45662]

3[Option ID=45663]

4[Option ID=45664]

SI. No.42
QBID:30201042

Which of the following recommended the establishment of national universities in India?

1. Kothari Commission
2. Radhakrishnan Commission
3. Knowledge Commission
4. Yashpal Commission

- (1) 1
(2) 2
(3) 3
(4) 4

निम्नलिखित में से किसने भारत में राष्ट्रीय विश्वविद्यालयों को स्थापित करने की अनुशंसा की थी ?

1. कोठारी आयोग
2. राधाकृष्णन आयोग
3. ज्ञान आयोग
4. यशपाल समिति

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=45665]
2[Option ID=45666]
3[Option ID=45667]
4[Option ID=45668]

Question Description : dwbv_pg_gp30_eng_2_q42

SI. No.43
QBID:30201043

Which of following acronym and its expansion are incorrectly matched?

1. NCERT- National Council of Educational Research and Training.
2. NCTE- National Council for Teacher Education
3. ICAR- Indian Council for Applied Research
4. AICTE- All India Council of Technical Education

- (1) 1
(2) 2
(3) 3
(4) 4

निम्नलिखित में से कौनसा परिवर्णी शब्द और उसका विस्तार (पूर्णरूप) सही ढंग से सुमेलित नहीं है ?

1. एनसीईआरटी - नेशनल काउंसिल ऑफ एजुकेशन रिसर्च एण्ड ट्रेनिंग
2. एनसीटीई - नेशनल काउंसिल फॉर टीचर एजुकेशन
3. आईसीएआर - इण्डियन काउंसिल फॉर अप्लाइड रिसर्च
4. एआईसीटीई - ऑल इण्डिया काउंसिल ऑफ टेक्निकल एजुकेशन

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=45669]
2[Option ID=45670]
3[Option ID=45671]
4[Option ID=45672]

Question Description : dwbv_pg_gp30_eng_2_q43

SI. No.44
QBID:30201044

Given below are two statements:

Statement I: Fostering local competencies among students and teachers is one of the core values promoted by NAAC (National Assessment and Accreditation Council) among the institutions of higher learning.

Statement II: Improving the overall quality of State institutions is one of the objectives of RUSA (Rashtriya Uchchatar Shiksha Abhiyan).

In light of the above statements, choose the *correct* answer from the options given below:

1. Both Statement I and Statement II are true.
2. Both Statement I and Statement II are false.
3. Statement I is true but Statement II is false.
4. Statement I is false but Statement II is true.

(1) 1

(2) 2

(3) 3

(4) 4

नीचे दो कथन दिए गए हैं :

कथन - I : उच्च शिक्षा संस्थानों में विद्यार्थियों व शिक्षकों के बीच स्थानीय सक्षमताओं का पोषण करना एन ए ए सी (राष्ट्रीय आकलन प्रत्यापन परिषद) द्वारा संवर्धित आंतरक मूल्यों में से एक है।

कथन - II : राज्य संस्थानों की समग्र गुणवत्ता में सुधार करना आर यू एस ए (राष्ट्रीय उच्चतर शिक्षा अभियान) का एक उद्देश्य है।

उपर्युक्त कथनों के आलोक में निम्नलिखित विकल्पों में से सही उत्तर चुनें :

1. कथन I और II दोनों सत्य हैं।
2. कथन I और II दोनों असत्य हैं।
3. कथन I सत्य है, किन्तु कथन II असत्य है।
4. कथन I असत्य है, किन्तु कथन II सत्य है।

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45673]

2[Option ID=45674]

3[Option ID=45675]

4[Option ID=45676]

Question Description : dwbv_pg_gp30_eng_2_q44

Sl. No.45

QBID:30201045

The major suggestions of Rammurthy Committee on education were:

- A. Derecognition of the UGC.
- B. Abolition of agricultutal universities.
- C. Decentralisation of higher education.
- D. Focus of universities on teaching of post-graduate classes and reasearch.
- E. Inservice training for university and college teachers to improve quality of teaching.

Choose the *correct* answer from the options given below:

- 1. A, B and C only
- 2. B, C and D only
- 3. C, D and E only
- 4. A, D and E only

(1) 1

(2) 2

(3) 3

(4) 4

शिक्षा के संबंध में राममूर्ति समिति के निम्नलिखित में से कौन - कौन प्रमुख सुझाव थे ?

- A. यूजीसी की मान्यता समाप्त करना
- B. कृषि विश्वविद्यालयों का उन्मूलन
- C. उच्च शिक्षा का विकेन्द्रीकरण
- D. स्नातकोत्तर कक्षा के शिक्षण व शोध पर विश्वविद्यालयों का फोकस
- E. शिक्षण की गुणवत्ता में सुधार के लिए विश्वविद्यालयों व महाविद्यालयों के कार्यरत (इन सर्विस) शिक्षकों हेतु प्रशिक्षण

नीचे दिए गए विकल्पों में से सही उत्तर चुनें :

- 1. केवल A, B और C
- 2. केवल B, C और D
- 3. केवल C, D और E
- 4. केवल A, D और E

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45677]

2[Option ID=45678]

3[Option ID=45679]

4[Option ID=45680]

Question Description : dwbv_pg_gp30_eng_2_q45

SI. No.46

QBID:30201046

Read the passage and answer the questions that follow:

Annual consumer price index (CPI) inflation fell to 5.88 percent in November, from the previous month's 6.77 percent and below the RBI 6 per cent upper tolerance limit for the first time since December, 2021. The index of industrial production (IIP) contracted 4 percent year-on-year in October, led by manufacturing (minus 5.6 percent) and also the sub-sectors that are proxies for consumption and investment activity: Consumer durables (minus 15.3 percent), non-durables (minus 13.4 percent) and capital goods minus 2.3 percent). Clearly, the pent-up demand that fueled consumption spending post the lifting of Covid-19 restrictions has ebbed. Nor are there signs of a fresh investment cycle even as exports-which were doing well till September- have entered negative territory on the back of a global slowdown.

That said the evidence on growth slowing is more compelling than on inflation moderating. The latter's decline in November had mainly to do with food, which registered a steep dip to 4.67 percent from 7.01 percent in October. That, in turn, was courtesy of vegetables and fruits. These recorded inflation of minus 8.08 percent and 2.62 percent, basically reflecting a seasonal trend: Winter is when supply of fresh produce, from tomatoes to cole crops (e.g. Cauliflower, cabbage, broccoli, etc) and leafy greens, turns plentiful and affordable.

नीचे दिए गए गद्यांश को पढ़िए और प्रश्नों के उत्तर दीजिए :

वार्षिक उपभोक्ता मूल्य सूचकांक (सी पी आई) मुद्रास्फीति दिसंबर 2021 के बाद से प्रथम बार नवम्बर में पिछले माह की 6.77 प्रतिशत से गिर कर 5.88 प्रतिशत हो गई और यह भारतीय रिजर्व बैंक की 6 प्रतिशत की उच्चतम सहनशीलता सीमा से कम है। औद्योगिक उत्पादन सूचकांक (आई आई पी) में अक्टूबर में वर्ष - दर - वर्ष 4 प्रतिशत संकुचन हुआ जिसमें विनिर्माण क्षेत्र (ऋणात्मक 5.6 प्रतिशत) और उपभोग व निवेश क्रियाकलापों के परोक्षी उपक्षेत्रों की महत्वपूर्ण भूमिका रही, टिकाऊ उपभोक्ता वस्तुएं (ऋणात्मक 15.3 प्रतिशत), गैर - टिकाऊ (ऋणात्मक 13.4 प्रतिशत) और पूंजीगत माल (ऋणात्मक 2.3 प्रतिशत)। स्पष्ट रूप से कोविड - 19 प्रतिबंधों के हटाए जाने के पश्चात् से उपभोग व्यय को बढ़ाने वाली अवरुद्ध मांग का ज्वार अब उतर गया है। न ही नवीन निवेश चक्र के कोई चिन्ह हैं, सितंबर तक उत्तम प्रदर्शन कर रहा निर्यात क्षेत्र भी वैश्विक मंदी के चलते ऋणात्मक क्षेत्र में प्रवेश कर गया है।

इसके साथ ही संवृद्धि मंदन का साक्ष्य मुद्रास्फीति मंदन की तुलना में अधिक अकाट्य है। नवंबर में अरोक्त में गिरावट मुख्यतः खाद्य वस्तुओं से जुड़ी थी जिसमें अक्टूबर में 7.01 प्रतिशत से 4.67 प्रतिशत की अत्यधिक गिरावट आई। उसका कारण सब्जियां और फल थे। बुनियादी रूप से मौसमी रुझान को प्रतिबिंबित करते हुए इनमें मुद्रास्फीति ऋणात्मक 8.08 प्रतिशत व ऋणात्मक 2.62 प्रतिशत रिकार्ड की गई : शीत ऋतु में टमाटर से कोल फसलें (उदाहरण के रूप में गोभी, बंद गोभी, ब्रोकली आदि) और हरे पत्तों वाली सब्जियां बहुतायत में और वहन योग्य होती हैं।

In October, the index of industrial production fell by

1. 5.88%
2. 6.77%
3. 4%
4. 5.6%

- (1) 1
- (2) 2
- (3) 3
- (4) 4

अक्टूबर में औद्योगिक उत्पादन सूचकांक में कितनी गिरावट आई ?

1. 5.88 %
2. 6,77 %
3. 4 %
4. 5.6 %

- (1) 1
- (2) 2
- (3) 3
- (4) 4

Sl. No.47
QBID:30201047

Read the passage and answer the questions that follow:

Annual consumer price index (CPI) inflation fell to 5.88 percent in November, from the previous month's 6.77 percent and below the RBI 6 per cent upper tolerance limit for the first time since December, 2021. The index of industrial production (IIP) contracted 4 percent year-on-year in October, led by manufacturing (minus 5.6 percent) and also the sub-sectors that are proxies for consumption and investment activity: Consumer durables (minus 15.3 percent), non-durables (minus 13.4 percent) and capital goods minus 2.3 percent). Clearly, the pent-up demand that fueled consumption spending post the lifting of Covid-19 restrictions has ebbed. Nor are there signs of a fresh investment cycle even as exports-which were doing well till September- have entered negative territory on the back of a global slowdown.

That said the evidence on growth slowing is more compelling than on inflation moderating. The latter's decline in November had mainly to do with food, which registered a steep dip to 4.67 percent from 7.01 percent in October. That, in turn, was courtesy of vegetables and fruits. These recorded inflation of minus 8.08 percent and 2.62 percent, basically reflecting a seasonal trend: Winter is when supply of fresh produce, from tomatoes to cole crops (e.g. Cauliflower, cabbage, broccoli, etc) and leafy greens, turns plentiful and affordable.

नीचे दिए गए गद्यांश को पढ़िए और प्रश्नों के उत्तर दीजिए :

वार्षिक उपभोक्ता मूल्य सूचकांक (सी पी आई) मुद्रास्फीति दिसंबर 2021 के बाद से प्रथम बार नवम्बर में पिछले माह की 6.77 प्रतिशत से गिर कर 5.88 प्रतिशत हो गई और यह भारतीय रिजर्व बैंक की 6 प्रतिशत की उच्चतम सहनशीलता सीमा से कम है। औद्योगिक उत्पादन सूचकांक (आई आई पी) में अक्टूबर में वर्ष - दर - वर्ष 4 प्रतिशत संकुचन हुआ जिसमें विनिर्माण क्षेत्र (ऋणात्मक 5.6 प्रतिशत) और उपभोग व निवेश क्रियाकलापों के परोक्षी उपक्षेत्रों की महत्वपूर्ण भूमिका रही, टिकाऊ उपभोक्ता वस्तुएं (ऋणात्मक 15.3 प्रतिशत), गैर - टिकाऊ (ऋणात्मक 13.4 प्रतिशत) और पूंजीगत माल (ऋणात्मक 2.3 प्रतिशत)। स्पष्ट रूप से कोविड - 19 प्रतिबंधों के हटाए जाने के पश्चात् से उपभोग व्यय को बढ़ाने वाली अवरुद्ध मांग का ज्वार अब उतर गया है। न ही नवीन निवेश चक्र के कोई चिन्ह हैं, सितंबर तक उत्तम प्रदर्शन कर रहा निर्यात क्षेत्र भी वैश्विक मंदी के चलते ऋणात्मक क्षेत्र में प्रवेश कर गया है।

इसके साथ ही संवृद्धि मंदन का साक्ष्य मुद्रास्फीति मंदन की तुलना में अधिक अकाट्य है। नवंबर में अरोक्त में गिरावट मुख्यतः खाद्य वस्तुओं से जुड़ी थी जिसमें अक्टूबर में 7.01 प्रतिशत से 4.67 प्रतिशत की अत्यधिक गिरावट आई। उसका कारण सब्जियां और फल थे। बुनियादी रूप से मौसमी रुझान को प्रतिबिंबित करते हुए इनमें मुद्रास्फीति ऋणात्मक 8.08 प्रतिशत व ऋणात्मक 2.62 प्रतिशत रिकार्ड की गई : शीत ऋतु में टमाटर से कोल फसलें (उदाहरण के रूप में गोभी, बंद गोभी, ब्रोकोली आदि) और हरे पत्तों वाली सब्जियां बहुतायत में और वहन योग्य होती हैं।

Given below are two statements, one is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): Consumption levels increased sharply after Covid-19 restrictions were lifted.

Reason (R): The demand for goods had accumulated due to frequent Covid-19 restrictions and lockdowns.

In light of the above statements, choose the *most appropriate* answer from the options given below:

1. Both (A) and (R) are correct and (R) is the correct explanation of (A).
2. Both (A) and (R) are correct but (R) is not the correct explanation of (A).
3. (A) is correct but (R) is not correct.
4. (A) is not correct but (R) is correct.

- (1) 1
- (2) 2
- (3) 3
- (4) 4

नीचे दो कथन दिए गए हैं : एक को अभिकथन (A) और दूसरे को कारण (R) कहा गया है।

अभिकथन (A) : कोविड - 19 प्रतिबंधों को हटाए जाने पश्चात् उपभोग स्तरों में तीव्र वृद्धि हुई।

कारण (R) : बार - बार कोविड प्रतिबंधों व लॉकडाउनों के कारण मालों की मांग संचित हो गई थी।

उपर्युक्त कथनों के आलोक में निम्नांकित विकल्पों में से सही उत्तर चुनें :

1. (A) और (R) दोनों सही हैं और (R), (A) की सही व्याख्या है।
2. (A) और (R) दोनों सही हैं परन्तु (R), (A) की सही व्याख्या नहीं है।
3. (A) सही है परन्तु (R) सही नहीं है।
4. (A) सही नहीं है परन्तु (R) सही है।

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45685]

Question Description : dwbv_pg_gp30_eng_2_q47

2[Option ID=45686]

3[Option ID=45687]

4[Option ID=45688]

Sl. No.48

QBID:30201048

Read the passage and answer the questions that follow:

Annual consumer price index (CPI) inflation fell to 5.88 percent in November, from the previous month's 6.77 percent and below the RBI 6 per cent upper tolerance limit for the first time since December, 2021. The index of industrial production (IIP) contracted 4 percent year-on-year in October, led by manufacturing (minus 5.6 percent) and also the sub-sectors that are proxies for consumption and investment activity: Consumer durables (minus 15.3 percent), non-durables (minus 13.4 percent) and capital goods minus 2.3 percent). Clearly, the pent-up demand that fueled consumption spending post the lifting of Covid-19 restrictions has ebbed. Nor are there signs of a fresh investment cycle even as exports-which were doing well till September- have entered negative territory on the back of a global slowdown.

That said the evidence on growth slowing is more compelling than on inflation moderating. The latter's decline in November had mainly to do with food, which registered a steep dip to 4.67 percent from 7.01 percent in October. That, in turn, was courtesy of vegetables and fruits. These recorded inflation of minus 8.08 percent and 2.62 percent, basically reflecting a seasonal trend: Winter is when supply of fresh produce, from tomatoes to cole crops (e.g. Cauliflower, cabbage, broccoli, etc) and leafy greens, turns plentiful and affordable.

नीचे दिए गए गद्यांश को पढ़िए और प्रश्नों के उत्तर दीजिए :

वार्षिक उपभोक्ता मूल्य सूचकांक (सी पी आई) मुद्रास्फीति दिसंबर 2021 के बाद से प्रथम बार नवम्बर में पिछले माह की 6.77 प्रतिशत से गिर कर 5.88 प्रतिशत हो गई और यह भारतीय रिजर्व बैंक की 6 प्रतिशत की उच्चतम सहनशीलता सीमा से कम है। औद्योगिक उत्पादन सूचकांक (आई आई पी) में अक्टूबर में वर्ष - दर - वर्ष 4 प्रतिशत संकुचन हुआ जिसमें विनिर्माण क्षेत्र (ऋणात्मक 5.6 प्रतिशत) और उपभोग व निवेश क्रियाकलापों के परोक्षी उपक्षेत्रों की महत्वपूर्ण भूमिका रही, टिकाऊ उपभोक्ता वस्तुएं (ऋणात्मक 15.3 प्रतिशत), गैर - टिकाऊ (ऋणात्मक 13.4 प्रतिशत) और पूंजीगत माल (ऋणात्मक 2.3 प्रतिशत)। स्पष्ट रूप से कोविड - 19 प्रतिबंधों के हटाए जाने के पश्चात् से उपभोग व्यय को बढ़ाने वाली अवरुद्ध मांग का ज्वार अब उतर गया है। न ही नवीन निवेश चक्र के कोई चिन्ह हैं, सितंबर तक उत्तम प्रदर्शन कर रहा निर्यात क्षेत्र भी वैश्विक मंदी के चलते ऋणात्मक क्षेत्र में प्रवेश कर गया है।

इसके साथ ही संवृद्धि मंदन का साक्ष्य मुद्रास्फीति मंदन की तुलना में अधिक अकाट्य है। नवंबर में अवरुक्त में गिरावट मुख्यतः खाद्य वस्तुओं से जुड़ी थी जिसमें अक्टूबर में 7.01 प्रतिशत से 4.67 प्रतिशत की अत्यधिक गिरावट आई। उसका कारण सब्जियां और फल थे। बुनियादी रूप से मौसमी रुझान को प्रतिबिंबित करते हुए इनमें मुद्रास्फीति ऋणात्मक 8.08 प्रतिशत व ऋणात्मक 2.62 प्रतिशत रिकार्ड की गई : शीत ऋतु में टमाटर से कोल फसलें (उदाहरण के रूप में गोभी, बंद गोभी, ब्रोकली आदि) और हरे पत्तों वाली सब्जियां बहुतायत में और वहन योग्य होती हैं।

Which of the following registered the maximum percentage reduction in October?

1. manufacturing
2. consumer durables
3. non-durables
4. capital goods

(1) 1

(2) 2

(3) 3

(4) 4

अक्टूबर में निम्नलिखित में से किसमें अधिकतम प्रतिशत कमी आई ?

1. विनिर्माण
2. टिकाऊ उपभोक्ता वस्तुएं
3. गैर - टिकाऊ वस्तुएं
4. पूंजीगत माल

(1) 1

(2) 2

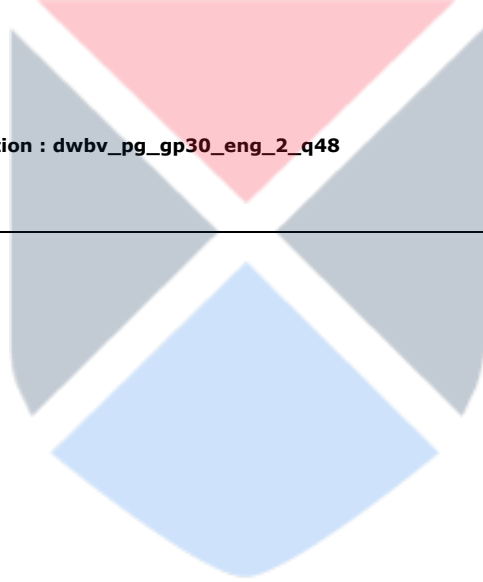
(3) 3

(4) 4

1[Option ID=45689]
2[Option ID=45690]
3[Option ID=45691]
4[Option ID=45692]

Question Description : dwbv_pg_gp30_eng_2_q48

SI. No.49
QBID:30201049



Read the passage and answer the questions that follow:

Annual consumer price index (CPI) inflation fell to 5.88 percent in November, from the previous month's 6.77 percent and below the RBI 6 per cent upper tolerance limit for the first time since December, 2021. The index of industrial production (IIP) contracted 4 percent year-on-year in October, led by manufacturing (minus 5.6 percent) and also the sub-sectors that are proxies for consumption and investment activity: Consumer durables (minus 15.3 percent), non-durables (minus 13.4 percent) and capital goods minus 2.3 percent). Clearly, the pent-up demand that fueled consumption spending post the lifting of Covid-19 restrictions has ebbed. Nor are there signs of a fresh investment cycle even as exports-which were doing well till September- have entered negative territory on the back of a global slowdown.

That said the evidence on growth slowing is more compelling than on inflation moderating. The latter's decline in November had mainly to do with food, which registered a steep dip to 4.67 percent from 7.01 percent in October. That, in turn, was courtesy of vegetables and fruits. These recorded inflation of minus 8.08 percent and 2.62 percent, basically reflecting a seasonal trend: Winter is when supply of fresh produce, from tomatoes to cole crops (e.g. Cauliflower, cabbage, broccoli, etc) and leafy greens, turns plentiful and affordable.

नीचे दिए गए गद्यांश को पढ़िए और प्रश्नों के उत्तर दीजिए :

वार्षिक उपभोक्ता मूल्य सूचकांक (सी पी आई) मुद्रास्फीति दिसंबर 2021 के बाद से प्रथम बार नवम्बर में पिछले माह की 6.77 प्रतिशत से गिर कर 5.88 प्रतिशत हो गई और यह भारतीय रिजर्व बैंक की 6 प्रतिशत की उच्चतम सहनशीलता सीमा से कम है। औद्योगिक उत्पादन सूचकांक (आई आई पी) में अक्टूबर में वर्ष - दर - वर्ष 4 प्रतिशत संकुचन हुआ जिसमें विनिर्माण क्षेत्र (ऋणात्मक 5.6 प्रतिशत) और उपभोग व निवेश क्रियाकलापों के परोक्षी उपक्षेत्रों की महत्वपूर्ण भूमिका रही, टिकाऊ उपभोक्ता वस्तुएं (ऋणात्मक 15.3 प्रतिशत), गैर - टिकाऊ (ऋणात्मक 13.4 प्रतिशत) और पूंजीगत माल (ऋणात्मक 2.3 प्रतिशत)। स्पष्ट रूप से कोविड - 19 प्रतिबंधों के हटाए जाने के पश्चात् से उपभोग व्यय को बढ़ाने वाली अवरुद्ध मांग का ज्वार अब उतर गया है। न ही नवीन निवेश चक्र के कोई चिन्ह हैं, सितंबर तक उत्तम प्रदर्शन कर रहा निर्यात क्षेत्र भी वैश्विक मंदी के चलते ऋणात्मक क्षेत्र में प्रवेश कर गया है।

इसके साथ ही संवृद्धि मंदन का साक्ष्य मुद्रास्फीति मंदन की तुलना में अधिक अकाट्य है। नवंबर में अरोक्त में गिरावट मुख्यतः खाद्य वस्तुओं से जुड़ी थी जिसमें अक्टूबर में 7.01 प्रतिशत से 4.67 प्रतिशत की अत्यधिक गिरावट आई। उसका कारण सब्जियां और फल थे। बुनियादी रूप से मौसमी रुझान को प्रतिबिंबित करते हुए इनमें मुद्रास्फीति ऋणात्मक 8.08 प्रतिशत व ऋणात्मक 2.62 प्रतिशत रिकार्ड की गई : शीत ऋतु में टमाटर से कोल फसलें (उदाहरण के रूप में गोभी, बंद गोभी, ब्रोकली आदि) और हरे पत्तों वाली सब्जियां बहुतायत में और वहन योग्य होती हैं।

Given below are two statements:

Statement I: All the food items this November were cheaper as compared to November last year.

Statement II: Vegetables this November were cheaper than those last November.

In light of the above statements, choose the *correct* answer from the options given below:

1. Both Statement I and Statement II are true.
2. Both Statement I and Statement II are false.
3. Statement I is true but Statement II is false.
4. Statement I is false but Statement II is true.

(1) 1

(2) 2

(3) 3

(4) 4

नीचे दो कथन दिए गए हैं :

कथन - I : पिछले वर्ष नवंबर की तुलना में इस नवंबर में सभी खाद्य वस्तुएं सस्ती थीं।

कथन - II : पिछले नवंबर की तुलना में इस नवंबर में सब्जियां सस्ती थीं।

उपर्युक्त कथनों के आलोक में निम्नलिखित विकल्पों में से सही उत्तर चुनें :

1. कथन I और II दोनों सत्य हैं।
2. कथन I और II दोनों असत्य हैं।
3. कथन I सत्य है, किन्तु कथन II असत्य है।
4. कथन I असत्य है, किन्तु कथन II सत्य है।

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45693] Question Description : dwbv_pg_gp30_eng_2_q49
2[Option ID=45694]
3[Option ID=45695]
4[Option ID=45696]

SI. No.50
QBID:30201050

Read the passage and answer the questions that follow:

Annual consumer price index (CPI) inflation fell to 5.88 percent in November, from the previous month's 6.77 percent and below the RBI 6 per cent upper tolerance limit for the first time since December, 2021. The index of industrial production (IIP) contracted 4 percent year-on-year in October, led by manufacturing (minus 5.6 percent) and also the sub-sectors that are proxies for consumption and investment activity: Consumer durables (minus 15.3 percent), non-durables (minus 13.4 percent) and capital goods minus 2.3 percent). Clearly, the pent-up demand that fueled consumption spending post the lifting of Covid-19 restrictions has ebbed. Nor are there signs of a fresh investment cycle even as exports-which were doing well till September- have entered negative territory on the back of a global slowdown.

That said the evidence on growth slowing is more compelling than on inflation moderating. The latter's decline in November had mainly to do with food, which registered a steep dip to 4.67 percent from 7.01 percent in October. That, in turn, was courtesy of vegetables and fruits. These recorded inflation of minus 8.08 percent and 2.62 percent, basically reflecting a seasonal trend: Winter is when supply of fresh produce, from tomatoes to cole crops (e.g. Cauliflower, cabbage, broccoli, etc) and leafy greens, turns plentiful and affordable.

नीचे दिए गए गद्यांश को पढ़िए और प्रश्नों के उत्तर दीजिए :

वार्षिक उपभोक्ता मूल्य सूचकांक (सी पी आई) मुद्रास्फीति दिसंबर 2021 के बाद से प्रथम बार नवम्बर में पिछले माह की 6.77 प्रतिशत से गिर कर 5.88 प्रतिशत हो गई और यह भारतीय रिजर्व बैंक की 6 प्रतिशत की उच्चतम सहनशीलता सीमा से कम है। औद्योगिक उत्पादन सूचकांक (आई आई पी) में अक्टूबर में वर्ष - दर - वर्ष 4 प्रतिशत संकुचन हुआ जिसमें विनिर्माण क्षेत्र (ऋणात्मक 5.6 प्रतिशत) और उपभोग व निवेश क्रियाकलापों के परोक्षी उपक्षेत्रों की महत्वपूर्ण भूमिका रही, टिकाऊ उपभोक्ता वस्तुएं (ऋणात्मक 15.3 प्रतिशत), गैर - टिकाऊ (ऋणात्मक 13.4 प्रतिशत) और पूंजीगत माल (ऋणात्मक 2.3 प्रतिशत)। स्पष्ट रूप से कोविड - 19 प्रतिबंधों के हटाए जाने के पश्चात् से उपभोग व्यय को बढ़ाने वाली अवरुद्ध मांग का ज्वार अब उतर गया है। न ही नवीन निवेश चक्र के कोई चिन्ह हैं, सितंबर तक उत्तम प्रदर्शन कर रहा निर्यात क्षेत्र भी वैश्विक मंदी के चलते ऋणात्मक क्षेत्र में प्रवेश कर गया है।

इसके साथ ही संवृद्धि मंदन का साक्ष्य मुद्रास्फीति मंदन की तुलना में अधिक अकाट्य है। नवंबर में अवरुक्त में गिरावट मुख्यतः खाद्य वस्तुओं से जुड़ी थी जिसमें अक्टूबर में 7.01 प्रतिशत से 4.67 प्रतिशत की अत्यधिक गिरावट आई। उसका कारण सब्जियां और फल थे। बुनियादी रूप से मौसमी रुझान को प्रतिबिंबित करते हुए इनमें मुद्रास्फीति ऋणात्मक 8.08 प्रतिशत व ऋणात्मक 2.62 प्रतिशत रिकार्ड की गई : शीत ऋतु में टमाटर से कोल फसलें (उदाहरण के रूप में गोभी, बंद गोभी, ब्रोकोली आदि) और हरे पत्तों वाली सब्जियां बहुतायत में और वहन योग्य होती हैं।

Given below are two statements, one is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): Food inflation in winters is generally low.

Reason (R): The demand for food items in winter is lower than that in other seasons.

In light of the above statements, choose the *most appropriate* answer from the options given below:

1. Both (A) and (R) are correct and (R) is the correct explanation of (A).
2. Both (A) and (R) are correct but (R) is not the correct explanation of (A).
3. (A) is correct but (R) is not correct.
4. (A) is not correct but (R) is correct.

(1) 1

(2) 2

(3) 3

(4) 4

नीचे दो कथन दिए गए हैं : एक को अभिकथन (A) और दूसरे को कारण (R) कहा गया है।

अभिकथन (A) : शीतकाल में खाद्य मुद्रास्फीति सामान्यतया कम रहती है।

कारण (R) : अन्य ऋतुओं की अपेक्षा शीत काल में खाद्य वस्तुओं की मांग कम रहती है।

उपर्युक्त कथनों के आलोक में निम्नांकित विकल्पों में से सही उत्तर चुनें :

1. (A) और (R) दोनों सही हैं और (R), (A) की सही व्याख्या है।
2. (A) और (R) दोनों सही हैं परन्तु (R), (A) की सही व्याख्या नहीं है।
3. (A) सही है परन्तु (R) सही नहीं है।
4. (A) सही नहीं है परन्तु (R) सही है।

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45697]

2[Option ID=45698]

3[Option ID=45699]

4[Option ID=45700]

Question Description : dwbv_pg_gp30_eng_2_q50

Paper II : 87-Computer Science and Applications

Sl. No.1

QBID:87001

Which of the following is NOT logically equivalent to $P \rightarrow Q$?

1. $\sim P \vee Q$
2. $\sim Q \rightarrow \sim P$
3. $\sim(P \wedge \sim Q)$
4. $\sim Q \rightarrow P$

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45701]

2[Option ID=45702]

3[Option ID=45703]

4[Option ID=45704]

Question Description : dwbv_pg_cms_eng_2_q1

SI. No.2
QBID:87002

Seven people enter a lift. The lift stops only at three floors (which are unspecified). At each of the three floors, no one enters the lift, but at least one person leaves the lift. After the three floor stops, the lift is empty. In how many ways this can happen?

1. 1844
2. 2187
3. 1806
4. 343

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=45705] Question Description : dwbv_pg_cms_eng_2_q2
2[Option ID=45706]
3[Option ID=45707]
4[Option ID=45708]

SI. No.3
QBID:87003

The coefficients of $x^2y^3z^2$ in the expansion of $(x+y+z)^7$ is

1. $C(7,3) * C(5,2)$
2. $C(7,2) * C(5,3)$
3. $C(7,3) * C(7,2)$
4. $C(5,3) * C(5,2)$

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=45709] Question Description : dwbv_pg_cms_eng_2_q3
2[Option ID=45710]
3[Option ID=45711]
4[Option ID=45712]

SI. No.4
QBID:87004

What is the minimum number of students in a discrete mathematics class to be sure that at least six will receive the same grade, if there are seven possible grades: S, A, B, C, D, P and F?

1. 7
2. 13
3. 36
4. 14

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=45713] Question Description : dwbv_pg_cms_eng_2_q4
2[Option ID=45714]
3[Option ID=45715]
4[Option ID=45716]

SI. No.5
QBID:87005

In 16-bit 2's Complement representation, the decimal number 28 is

1. 1111 1111 0001 1100
2. 1111 1111 1111 0100
3. 1111 1111 1110 0100
4. 1111 1111 1110 0011

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=45717] Question Description : dwbv_pg_cms_eng_2_q5
2[Option ID=45718]
3[Option ID=45719]
4[Option ID=45720]

SI. No.6
QBID:87006

Simplify the following using K-Map.

$$F(A, B, C, D) = \sum(3, 4, 5, 6, 7, 11, 15)$$

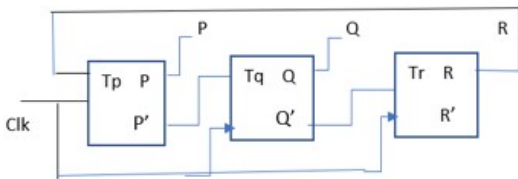
1. $AB + C'D$
2. $A'B + CD$
3. $AC + BD$
4. $A'B + B'C$

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=45721] Question Description : dwbv_pg_cms_eng_2_q6
2[Option ID=45722]
3[Option ID=45723]
4[Option ID=45724]

SI. No.7
QBID:87007

Consider a 3-bit counter, designed using T flip flops as shown below:



Assume the initial state of the counter given by PQR as 000, what are the next three states?

1. 011, 101, 000
2. 001, 010, 111
3. 011, 101, 111
4. 001, 010, 000

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=45725] Question Description : dwbv_pg_cms_eng_2_q7
2[Option ID=45726]
3[Option ID=45727]
4[Option ID=45728]

SI. No.8
QBID:87008

Let R1 and R2 be two 4-bit registers that store numbers in 2's complement form. For the operation R1+R2, which one of the following values of R1 and R2 gives an arithmetic overflow?

1. R1 = 1011 and R2 = 1110
2. R1 = 1100 and R2 = 1010
3. R1 = 0011 and R2 = 0100
4. R1 = 1001 and R2 = 1111

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=45729] Question Description : dwbv_pg_cms_eng_2_q8
2[Option ID=45730]
3[Option ID=45731]
4[Option ID=45732]

SI. No.9
QBID:87009

In the context of Binding which one of the following is incorrect?

1. Static binding is done at Compile Time
2. Absolute addresses are known at Load Time
3. Internal functions are known at link time
4. Target of a function is known at runtime

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=45733] Question Description : dwbv_pg_cms_eng_2_q9
2[Option ID=45734]
3[Option ID=45735]
4[Option ID=45736]

SI. No.10
QBID:87010

Given

```
int arr[3][4][2] = {{{2,4},{7,8},{3,4},{5,6}},{{7,6},{3,4},{5,3},{2,3}},{{8,9},{7,2},{3,4},{5,1}}};
```

Which one of the following can be used to refer to element 1 in the above 3-d array?

1. arr[3][4][2]
2. *(* (arr+2)+3)+1
3. *(arr+2)+*(arr+3)+*(arr+1)
4. arr[2][3][2]

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=45737] Question Description : dwbv_pg_cms_eng_2_q10
2[Option ID=45738]
3[Option ID=45739]
4[Option ID=45740]

SI. No.11
QBID:87011

Allowing different derived classes to be used interchangeably through the interface provided by a common base class is called _____.

1. Derived polymorphism
2. Compile time polymorphism
3. Static polymorphism
4. Run time polymorphism

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45745] Question Description : dwbv_pg_cms_eng_2_q11
2[Option ID=45746]
3[Option ID=45747]
4[Option ID=45748]

SI. No.12
QBID:87012

In _____curve the last and the first vertices of the polygon lie on the curve and all other vertices define the derivatives, order and shape of the curve.

1. B-Spline Curve
2. Boxline curve
3. Bezier curve
4. Gaussian curve

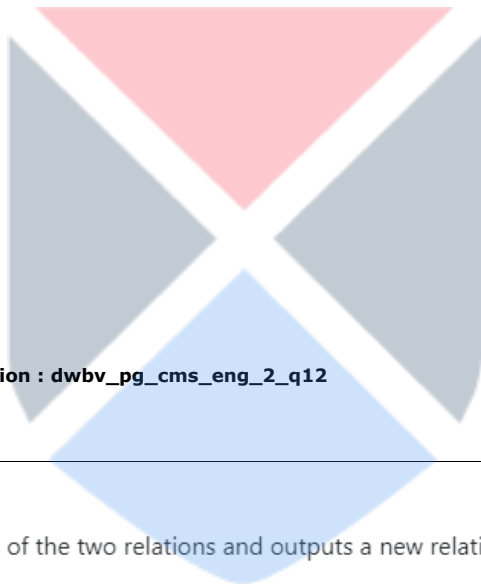
(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45749] Question Description : dwbv_pg_cms_eng_2_q12
2[Option ID=45750]
3[Option ID=45751]
4[Option ID=45752]



SI. No.13
QBID:87013

A _____ operation combines the rows of the two relations and outputs a new relation that has both input relations' rows in it.

1. difference
2. union
3. cartesian product
4. project

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45753] Question Description : dwbv_pg_cms_eng_2_q13
2[Option ID=45754]
3[Option ID=45755]
4[Option ID=45756]

SI. No.14
QBID:87014

Consider the relation R(P, Q, R, S, T, U, V, W, X, Y) and FDs:

$\{P, Q, S\} \rightarrow T$

$R \rightarrow Y$

$\{P, Q\} \rightarrow V$

$\{R, X\} \rightarrow X$

$Q \rightarrow U$

$V \rightarrow \{W, X\}$

Which of the following is a candidate key?

1. {P, Q, R, S}
2. {R, Q, X}
3. {V, X}
4. None of the above

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45757]

2[Option ID=45758]

3[Option ID=45759]

4[Option ID=45760]

Question Description : dwbv_pg_cms_eng_2_q14

SI. No.15

QBID:87015

Which RAID level is appropriate for storing the log file of a ticket booking system where a huge database update is required?

1. Level 0
2. Level 1
3. Level 2
4. Level 3

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45761]

2[Option ID=45762]

3[Option ID=45763]

4[Option ID=45764]

Question Description : dwbv_pg_cms_eng_2_q15

SI. No.16

QBID:87016

If we convert a decision tree to a set of logical rules, then:

1. The internal nodes in a branch are connected by AND and branches by AND
2. The internal nodes in a branch are connected by OR and branches by OR
3. The internal nodes in a branch are connected by AND and branches by OR
4. The internal nodes in a branch are connected by OR and branches by AND

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45765] Question Description : dwbv_pg_cms_eng_2_q16
2[Option ID=45766]
3[Option ID=45767]
4[Option ID=45768]

SI. No.17
QBID:87017

Model of protection can be viewed as

1. Owner matrix
2. Domain matrix
3. Access Matrix
4. Global matrix

(1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=45769] Question Description : dwbv_pg_cms_eng_2_q17
2[Option ID=45770]
3[Option ID=45771]
4[Option ID=45772]

SI. No.18
QBID:87018

Process in memory also contain the heap section. What is the use of heap section?

1. Contains temporary data
2. Dynamically allocate the memory during process run time
3. Contains Process priority and pointers to scheduling queues
4. Contains amount of CPU and real time use

(1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=45773] Question Description : dwbv_pg_cms_eng_2_q18
2[Option ID=45774]
3[Option ID=45775]
4[Option ID=45776]

SI. No.19
QBID:87019

How many page faults occur for optimal algorithm for the following reference string, with four frames?

1,2,3,4,5,3,4,1,6,7,8,7,8

1. 8
2. 7
3. 6
4. 5

(1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=45777] Question Description : dwbv_pg_cms_eng_2_q19
2[Option ID=45778]
3[Option ID=45779]
4[Option ID=45780]

SI. No.20
QBID:87020

Degree of concurrency in thread can be arranged in the manner.

1. one-to-one > many-to-one > many-to-many
2. one-to-one > many-to-many > many-to-one
3. many-to-many > many-to-one > one-to-one
4. None of the above

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45781] Question Description : dwbv_pg_cms_eng_2_q20
2[Option ID=45782]
3[Option ID=45783]
4[Option ID=45784]

SI. No.21
QBID:87021

Which of the following is not one of the principles of good coding?

1. Create unit tests before you begin coding.
2. Create visual layout that aids understanding.
3. Refactor the code after you completes the first coding pass.
4. Write self-documenting code not program documentation.

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45785] Question Description : dwbv_pg_cms_eng_2_q21
2[Option ID=45786]
3[Option ID=45787]
4[Option ID=45788]

SI. No.22
QBID:87022

If P is the risk probability, L is the loss, then Risk exposure (RE) is computed as ____.

1. $RE = P/L$
2. $RE = P+L$
3. $RE = P * L$
4. $RE = 2+(P*L)$

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45789] Question Description : dwbv_pg_cms_eng_2_q22
2[Option ID=45790]
3[Option ID=45791]
4[Option ID=45792]

SI. No.23
QBID:87023

Which of the following is a technique used for component wrapping?

1. Black-box wrapping
2. Clear-box wrapping
3. Gray-box wrapping
4. White-box wrapping

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=45793] Question Description : dwbv_pg_cms_eng_2_q23
2[Option ID=45794]
3[Option ID=45795]
4[Option ID=45796]

SI. No.24
QBID:87024

The cyclomatic complexity metric provides the designer with information regarding the number of _____.

- 1. Cycles in the program
- 2. Errors in the program
- 3. Independent logic paths in the program
- 4. Statements in the program

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=45797] Question Description : dwbv_pg_cms_eng_2_q24
2[Option ID=45798]
3[Option ID=45799]
4[Option ID=45800]

SI. No.25
QBID:87025

In a _____ the left and right subtrees for any given node, differ in height by more than one.

- 1. Balanced Binary Tree
- 2. Weight balanced binary tree
- 3. Height balanced tree
- 4. Binary Search Tree

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=45801] Question Description : dwbv_pg_cms_eng_2_q25
2[Option ID=45802]
3[Option ID=45803]
4[Option ID=45804]

SI. No.26
QBID:87026

FFTs are _____ techniques used to encode digital video and audio information and helps analyse the signal in _____ domain.

- 1. Encryption, time
- 2. Encryption, frequency
- 3. Compression, time
- 4. Compression, frequency

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=45805] Question Description : dwbv_pg_cms_eng_2_q26
2[Option ID=45806]
3[Option ID=45807]
4[Option ID=45808]

SI. No.27
QBID:87027

Given six weights 4,15,25,5,8,16 construct a 2-T tree. What is the minimum weighted path length?

1. 231
2. 172
3. 73
4. 77

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=45809] Question Description : dwbv_pg_cms_eng_2_q27
2[Option ID=45810]
3[Option ID=45811]
4[Option ID=45812]

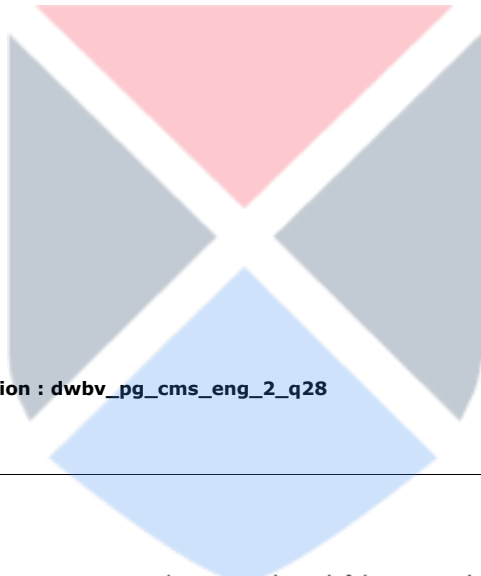
SI. No.28
QBID:87028

Suppose we store n keys in a hash table of size $m=n^2$ using a hash function h randomly chosen from a universal class of hash functions. Then the probability is ____ that there are any collisions.

1. greater than $1/5$
2. greater than $1/2$
3. less than $1/2$
4. less than $1/5$

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=45813] Question Description : dwbv_pg_cms_eng_2_q28
2[Option ID=45814]
3[Option ID=45815]
4[Option ID=45816]



SI. No.29
QBID:87029

In Pumping Lemma for context free languages, to say a language is satisfying pumping lemma, what is the minimum length of 'vx' together, if you consider the string as 'uvwxy'?

1. 0
2. 1
3. 2
4. n

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=45817] Question Description : dwbv_pg_cms_eng_2_q29
2[Option ID=45818]
3[Option ID=45819]
4[Option ID=45820]

SI. No.30
QBID:87030

Which of the following is ϵ -free grammar?

1. Type-0
2. Type-1
3. Type-2
4. Type-3

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45821] Question Description : dwbv_pg_cms_eng_2_q30
2[Option ID=45822]
3[Option ID=45823]
4[Option ID=45824]

SI. No.31
QBID:87031

While processing a string by an LR parser, the reading of the given string by the parser is-----.

1. From right to left
2. From left to right
3. Can be either from left to right or right to left
4. From the centre of the given string

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45825] Question Description : dwbv_pg_cms_eng_2_q31
2[Option ID=45826]
3[Option ID=45827]
4[Option ID=45828]

SI. No.32
QBID:87032

What is the minimum and maximum number of initial, dead, unreachable and final states in a valid 'n' state finite automaton, where the language accepted is not ' ϕ '?

1. Minimum: 1,1,1,1; Maximum: 1, (n-1), (n-1), n
2. Minimum: 1,0,0,0; Maximum: 1, (n-1), (n-1), n
3. Minimum: 1,0,0,n; Maximum: 1, n, (n-1), (n-1)
4. Minimum: 1,0,0,1; Maximum: 1, (n-1), (n-1), n

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45829] Question Description : dwbv_pg_cms_eng_2_q32
2[Option ID=45830]
3[Option ID=45831]
4[Option ID=45832]

SI. No.33
QBID:87033

Which protocol is used to acquire the MAC Address of a host whose IP address is known?

1. Dynamic Host control protocol
2. Address Resolution Protocol
3. Reverse Address Resolution Protocol
4. User Datagram Protocol

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=45833] Question Description : dwbv_pg_cms_eng_2_q33
2[Option ID=45834]
3[Option ID=45835]
4[Option ID=45836]

Sl. No.34
QBID:87034

In CRC coding if the data word is 111111, divisor is 1010 and the remainder is 110. Which of the following code is true?

- 1. 011111101
- 2. 001010110
- 3. 111111110
- 4. 110111111

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=45837] Question Description : dwbv_pg_cms_eng_2_q34
2[Option ID=45838]
3[Option ID=45839]
4[Option ID=45840]

Sl. No.35
QBID:87035

In Go-back-N protocol, the values of S_f (Send window, the first outstanding packet) =3, S_n (Send window, the next packet to be send) =7, after receiving the packet with AckNo.6, the value of S_n is _____.

- 1. 6
- 2. 7
- 3. 5
- 4. 4

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=45841] Question Description : dwbv_pg_cms_eng_2_q35
2[Option ID=45842]
3[Option ID=45843]
4[Option ID=45844]

Sl. No.36
QBID:87036

What is the minimum Hamming Distance in a block code if we want to be able to detect up to S errors?

- 1. S
- 2. S+1
- 3. 1
- 4. 0

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=45845] Question Description : dwbv_pg_cms_eng_2_q36
2[Option ID=45846]
3[Option ID=45847]
4[Option ID=45848]

SI. No.37
QBID:87037

Which search technique is complete and optimal, when $h(n)$ is consistent?

1. Best First Search
2. Depth First Search
3. A* Search
4. Breadth First Search

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=45849] Question Description : dwbv_pg_cms_eng_2_q37
2[Option ID=45850]
3[Option ID=45851]
4[Option ID=45852]

SI. No.38
QBID:87038

What is the process of capturing inference process as a single inference rule?

1. Ponens
2. Clauses
3. Generalized modus ponens
4. Variables

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=45853] Question Description : dwbv_pg_cms_eng_2_q38
2[Option ID=45854]
3[Option ID=45855]
4[Option ID=45856]

SI. No.39
QBID:87039

Fuzzy logic is a form of _____.

1. Two valued logic
2. Crisp set logic
3. Binary set logic
4. Many valued logic

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=45857] Question Description : dwbv_pg_cms_eng_2_q39
2[Option ID=45858]
3[Option ID=45859]
4[Option ID=45860]

SI. No.40
QBID:87040

The 4Ws problem canvas helps in identifying the key elements related to the problem. 4Ws problem canvas is a part of _____.

1. Problem scoping
2. Data acquisition
3. Data modeling
4. Problem Evaluation

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45861] Question Description : dwbv_pg_cms_eng_2_q40

2[Option ID=45862]

3[Option ID=45863]

4[Option ID=45864]

SI. No.41
QBID:87041

Consider the following statements:

- A. A group can have zero elements.
- B. A group cannot have any element which is idempotent except the identity element.
- C. An isomorphism from a group $\langle G, * \rangle$ to $\langle G, * \rangle$ is called an automorphism.
- D. If every element in a group is its own inverse, then the group must be abelian.

Choose the correct answer about the four statements given above.

1. B, C and D are correct
2. Only A and C are correct
3. Only B and C are correct
4. All A, B, C and D are correct.

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45865] Question Description : dwbv_pg_cms_eng_2_q41

2[Option ID=45866]

3[Option ID=45867]

4[Option ID=45868]

SI. No.42
QBID:87042

Consider the following statements:

- A. The number of labelled binary trees possible with 'n' nodes is $(2n)!/(n+1)!$
- B. The number of binary search trees possible with 'n' nodes is $(2n)!/((n+1)!n!)$
- C. The number of unlabeled binary trees possible with 'n' nodes is $C(2n,n)/(n+1)!$
- D. The number of simple, undirected and labelled graphs possible with 'n' vertices is $2^{n(n-1)/2}$

Choose the correct answer from the options given below:

- 1. A, B and C are only correct
- 2. A, B and D are only correct
- 3. B, C and D are only correct
- 4. A, C and D are only correct

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45869]
2[Option ID=45870]
3[Option ID=45871]
4[Option ID=45872]

Question Description : dwbv_pg_cms_eng_2_q42

SI. No.43
QBID:87043

The relation $R = \{(1,3), (1,1), (3,1), (1,2), (3,3), (4,4)\}$ defined in $\{1,2,3,4\}$ is _____.

- 1. Reflexive, Symmetric but not Transitive
- 2. Symmetric, anti-symmetric and transitive
- 3. Asymmetric, anti-symmetric and not transitive
- 4. Not reflexive, not symmetric and not transitive

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45873]
2[Option ID=45874]
3[Option ID=45875]
4[Option ID=45876]

Question Description : dwbv_pg_cms_eng_2_q43

SI. No.44
QBID:87044

Consider the Boolean expression given by $F=(X+Y+Z)(X'+Y)(Y'+Z)$.

Which of the following Boolean expressions is/are equivalent to F' (Complement of F)?

- A. $(X'+Y'+Z')(X+Y')(Y+Z')$
- B. $(XY'+Z')$
- C. $(X+Z')(Y'+Z')$
- D. $(XY'+YZ'+X'Y'Z')$

Choose the correct answer from the options given below:

- 1. A, B and C Only
- 2. B, C and D Only
- 3. A, C and D Only
- 4. A, B and D Only

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45877]

2[Option ID=45878]

3[Option ID=45879]

4[Option ID=45880]

Question Description : dwbv_pg_cms_eng_2_q44

SI. No.45

QBID:87045

Which of the following statement is/are True?

- A. The processor has direct access to both primary and secondary memory
- B. Primary memory stores the active instructions and data for the program being executed on the process
- C. Secondary memory is used as a backup memory
- D. Memory system is implemented on a single level memory

Choose the correct answer from the options given below:

- 1. A and B only
- 2. B and C only
- 3. A, B and C only
- 4. A and D Only

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45881]

2[Option ID=45882]

3[Option ID=45883]

4[Option ID=45884]

Question Description : dwbv_pg_cms_eng_2_q45

SI. No.46

QBID:87046

Inheritance provides the benefits of _____.

- A. shared interfaces
- B. run-time polymorphism
- C. less redundant information
- D. dynamic binding

Choose the Correct answer from the options given below:

- 1. A, B, C only
- 2. A, B, D only
- 3. B, C, D only
- 4. A, C, D only

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45885] Question Description : dwbv_pg_cms_eng_2_q46
2[Option ID=45886]
3[Option ID=45887]
4[Option ID=45888]

SI. No.47
QBID:87047

Which of the following are correct using the constructor?

- A. string s1;
- B. string s2 (s1);
- C. string s3 {7};
- D. string s4 {'a'};
- E. string s5{7,'a'};

Choose the most appropriate answer from the options given below:

- 1. A, D, E only
- 2. A, B, C only
- 3. A, B, D only
- 4. A and B only

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45889] Question Description : dwbv_pg_cms_eng_2_q47
2[Option ID=45890]
3[Option ID=45891]
4[Option ID=45892]

SI. No.48
QBID:87048

Suppose that a corporate website appearance varies according to the department that owns various documents. All the documents need to follow the corporate look and feel. The HR department does not need a separate style sheet. It needs only the sheet containing the difference from the corporate sheet.

Which of the following statements justify the above scenario?

- A. The styles sheets cannot stack on each other
- B. The style sheets can stack on each other
- C. The style sheets can override each other
- D. The style sheets cannot override each other

Choose the most appropriate answer from the options given below:

- 1. A, C Only
- 2. B, C Only
- 3. B, D only
- 4. A, D only

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=45893]
2[Option ID=45894]
3[Option ID=45895]
4[Option ID=45896]

Question Description : dwbv_pg_cms_eng_2_q48

SI. No.49
QBID:87049

Let T_i be a transaction that transfer Rs. 50 from account A to account B. This transaction can be defined as follows:

Step	Operation
1	Read(A)
2	$A := A - 50$
3	Write(A)
4	Read(B)
5	$B := B + 50$
6	Write(B)

What will be the status of a database just after 3rd step but before 5th step of transaction execution?

- 1. Always consistent
- 2. May be temporarily inconsistent
- 3. Must be abort
- 4. Always rollback

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=45897]
2[Option ID=45898]
3[Option ID=45899]
4[Option ID=45900]

Question Description : dwbv_pg_cms_eng_2_q49

SI. No.50
QBID:87050

Consider the relation

Student(stuid, dept, clsroll)

The following functional dependencies are given:

FD1: stuid \rightarrow dept

FD2: dept \rightarrow stuid

FD3: stuid \rightarrow clsroll

FD4: clsroll \rightarrow stuid

FD5: dept \rightarrow clsroll

Which functional dependencies should be removed to obtain the canonical cover of the set?

A. FD2 and FD3

B. FD1 and FD5

C. FD5

D. FD1

Choose the correct answer from the options given below:

1. A, B only
2. A, C only
3. B, C only
4. A, B, C only

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45901]

2[Option ID=45902]

3[Option ID=45903]

4[Option ID=45904]

Question Description : dwbv_pg_cms_eng_2_q50

Sl. No.51

QBID:87051

Which of the following statements are true?

- A. If the time quantum is extremely small, round robin can result in a large number of context switches.
- B. The average turnaround time of a set of processes does not necessarily improve as the time-quantum size increases.
- C. The average turnaround time can be improved if most processes finish their next CPU burst in a single time quantum.

Choose the correct answer from the options given below:

1. A only
2. A, B only
3. B, C only
4. A, B, C

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45905] Question Description : dwbv_pg_cms_eng_2_q51
2[Option ID=45906]
3[Option ID=45907]
4[Option ID=45908]

SI. No.52
QBID:87052

Consider the following set of processes that need to be scheduled on a single CPU. All the times are given in milliseconds.

Process Name	Arrival Time	Execution Time
A	0	6
B	3	2
C	5	4
D	7	6
E	10	3

Using the shortest remaining time first scheduling algorithm, the average process turnaround (in milliseconds) is _____.

1. 7.2
2. 8.2
3. 6
4. 9

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=45909] Question Description : dwbv_pg_cms_eng_2_q52
2[Option ID=45910]
3[Option ID=45911]
4[Option ID=45912]

SI. No.53
QBID:87053

Select the correct order of basic page replacement.

- A. Page replacement algorithm is used in case there is no free frame
- B. The process is continued by restarting the instruction caused by TRAP
- C. Location of desired frame is found from disk
- D. Desired page is brought into newly freed frame and page & frame tables are updated

1. A, B, D, C
2. C, D, A, B
3. C, A, D, B
4. A, D, B, C

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=45913] Question Description : dwbv_pg_cms_eng_2_q53
2[Option ID=45914]
3[Option ID=45915]
4[Option ID=45916]

SI. No.54
QBID:87054

Given below are two statements:

Statement I: Software testing must be recognized as a significant effort, and its planning must begin at the earliest possible time.

Statement II: The cost of software testing is an important contribution in determining overall software development costs.

In the light of the above statements, choose the correct answer from the options given below

1. Both Statement I and Statement II are true.
2. Both Statement I and Statement II are false.
3. Statement I is true but Statement II is false.
4. Statement I is false but Statement II is true.

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45917] Question Description : dwbv_pg_cms_eng_2_q54
2[Option ID=45918]
3[Option ID=45919]
4[Option ID=45920]

SI. No.55
QBID:87055

Which of the following need not be assessed during unit testing?

- A. Algorithmic performance.
- B. Number of lines of code.
- C. Error handling.
- D. Execution paths.

Choose the correct answer from the options given below:

1. A, B, C only
2. A, B, D only
3. A, C, D only
4. B, C, D only

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45921] Question Description : dwbv_pg_cms_eng_2_q55
2[Option ID=45922]
3[Option ID=45923]
4[Option ID=45924]

SI. No.56
QBID:87056

Which of the following rotations are correctly explained in the context of an AVL tree.

- A. LL rotation: The new node is inserted in the left sub-tree of the left sub-tree of the critical node.
- B. RR rotation: The new node is inserted in the right sub-tree of the right sub-tree of the critical node.
- C. LR rotation: The new node is inserted in the right sub-tree of the left sub-tree of the critical node.
- D. RL rotation: The new node is inserted in the left sub-tree of the right sub-tree of the critical node

Choose the correct answer from the options given below:

- 1. A, D only
- 2. A, C Only
- 3. A, B Only
- 4. B, C Only

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45925] Question Description : dwbv_pg_eng_2_q56
2[Option ID=45926]
3[Option ID=45927]
4[Option ID=45928]

SI. No.57
QBID:87057

In the context of a Hamiltonian problem, which of the following are correct?

- A. Hamiltonian cycle problem is NP-Complete
- B. If G is an undirected Bipartite graph with an odd number of vertices, then G is Hamiltonian.
- C. Hamiltonian path problem cannot be solved in polynomial time on directed acyclic graph
- D. If G is a connected undirected graph with at least three vertices and G^3 is the graph obtained by connecting all pairs of vertices that are connected by a path in G of length at most 3.
- E. If any NP complete problem is polynomial time solvable the $P=NP$.

Choose the most appropriate answer from the options given below:

- 1. A, B, C only
- 2. B, D, E only
- 3. A, D, E only
- 4. A, C, E only

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45929] Question Description : dwbv_pg_eng_2_q57
2[Option ID=45930]
3[Option ID=45931]
4[Option ID=45932]

SI. No.58
QBID:87058

For matrix multiplication, if we use divide and conquer algorithm, then _____

- A. the running time is $T(n) = \Theta(n^3)$
- B. the running time is $T(n) = \Theta(n^2 \log n)$
- C. The recurrence can be defined as $T(n) = 8T(n/2) + \Theta(n^2)$
- D. the recurrence relation is $T(n) = 8T(2n) + \Theta(n^2 \log n)$
- E. Masters theorem, one of the cases is applicable

Choose the most appropriate answer from the options given below:

- 1. A, C, E only
- 2. A, D, E only
- 3. B, D, E only
- 4. B, C, D only

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=45933] Question Description : dwbv_pg_cms_eng_2_q58
 2[Option ID=45934]
 3[Option ID=45935]
 4[Option ID=45936]

SI. No.59
 QBID:87059

Which of the following Finite Automata, recognizes the language $L = \{a,b\}^*$?

A. $M = (\{q_0\}, \{a,b\}, \delta, q_0, \{q_0\})$ where, δ is

	a	b
q_0	$\{q_0\}$	$\{q_0\}$

B. $M = (\{q_0, q_1\}, \{a,b\}, \delta, q_0, \{q_0, q_1\})$ where, δ is

	a	b
q_0	$\{q_0, q_1\}$	$\{q_0, q_1\}$
q_1	$\{q_1\}$	$\{q_1\}$

C. $M = (\{q_0, q_1\}, \{a,b\}, \delta, q_0, \{q_0, q_1\})$ where, δ is

	a	b
q_0	$\{q_0, q_1\}$	$\{q_0\}$
q_1	-	$\{q_1\}$

D. $M = (\{q_0, q_1, q_2\}, \{a,b\}, \delta, q_0, \{q_0\})$ where, δ is

	a	b
q_0	$\{q_0\}$	$\{q_0\}$
q_1	$\{q_2\}$	-
q_2	$\{q_0\}$	$\{q_2\}$

- 1. A and B
- 2. A and D
- 3. A, B and C
- 4. A, B, C and D

- (1) 1
- (2) 2

(3) 3

(4) 4

1[Option ID=45937] Question Description : dwbv_pg_eng_2_q59
2[Option ID=45938]
3[Option ID=45939]
4[Option ID=45940]

SI. No.60
QBID:87060

Which of the following statement(s) are correct?

- A. Syntax Directed Translation can be applied in Type Checking.
- B. Syntax Directed Translation can be used in 3-address code generation.
- C. Syntax Directed Translation can be used in construction of syntax tree.
- D. Syntax Directed Translation can be used to recognize valid tokens.

Choose the most appropriate answer from the options given below:

- 1. A, B and C
- 2. A, B, C and D
- 3. A, C and D
- 4. B, C and D

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45941] Question Description : dwbv_pg_eng_2_q60
2[Option ID=45942]
3[Option ID=45943]
4[Option ID=45944]

SI. No.61
QBID:87061

Consider a computer network using the distance vector routing algorithm in its network layer. The Objective is to find the shortest cost path from router R to routers P and Q. Assume that R does not initially know the shortest routes to P and Q. Assume that R has three neighboring routers, namely: X, Y and Z. During one iteration R measures its distance as 3, 2, and 5 from its neighbors X, Y and Z, respectively. Router R getting routing vectors from its neighbors that indicates a distance of 7,6 and 5 from router X, Y and Z to router P, respectively. The routing vector also indicates that the distance to router Q from Routers X, Y and Z are 4, 6, 8 respectively. Which of the following statements is/are True with respect to the new routing table at router R after updation during this iteration.

- A. The distance from R to P will be stored as 10
- B. The distance from R to Q will be stored as 7
- C. The next hop router for a packet from R to P is Y
- D. The next hop router for a packet from R to Q is Z

Choose the correct answer from the options given below:

- 1. B and C only
- 2. A and C only
- 3. C and D only
- 4. B and D only

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45945]
2[Option ID=45946]
3[Option ID=45947]
4[Option ID=45948]

Question Description : dwbv_pg_cms_eng_2_q61

SI. No.62
QBID:87062

Consider the routing table of an organization's router as shown in the table given below

Subnet Number	Subnet Mask	Next Hop
12.20.164.0	255.255.252.0	R1
12.20.170.0	255.255.254.0	R2
12.20.168.00	255.255.254.0	Interface 0
12.20.166.0	255.255.254.0	Interface 1
Default		R3

Which of the following prefixes in CIDR Notation can be collectively used to correctly aggregate all of the subnets in the routing table?

- A. 12.20.164.0/20
- B. 12.20.164.0/22
- C. 12.20.164.0/21
- D. 12.20.168.0/22

Choose the correct answer from the options given below:

- 1. A and B Only
- 2. A and C Only
- 3. C and D Only
- 4. B and D Only

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=45949]
2[Option ID=45950]
3[Option ID=45951]
4[Option ID=45952]

Question Description : dwbv_pg_cms_eng_2_q62

SI. No.63
QBID:87063

Consider two hosts P and Q are connected through a router R. The maximum transfer unit (MTU) value of the link between P and R is 1500 bytes and between R and Q is 820 bytes. A TCP segment of size of 1400 bytes is transferred from P to Q through R with IP identification value of 0x12334. Assume that IP header size is 20 bytes. Further the packet is allowed to be fragmented that is Don't Fragment (DF) flag in the IP Header is not set by P.

Which of the following statement is/are not true?

- A. Two fragments are created at R and IP datagram size carrying the second fragment is 620 bytes
- B. If the second fragment is lost then R resend the fragment with IP Identification value of 0x1234
- C. If the second fragment lost then P required to resend the entire TCP segment
- D. TCP destination port can be determined by analyzing the second fragment only

Choose the correct answer from the options given below:

- 1. A and B Only
- 2. A and C Only
- 3. C and D Only
- 4. B and D Only

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=45953]
2[Option ID=45954]
3[Option ID=45955]
4[Option ID=45956]

Question Description : dwbv_pg_cms_eng_2_q63

SI. No.64
QBID:87064

Consider the following features of Neural networks.

- A. It is essentially a machine learning algorithm.
- B. It is useful when solving the problems for which the data set is very large.
- C. They are able to extract features without input from the programmer.
- D. These are systems modeled on the human brain and nervous system.

Choose the most appropriate answer from the options given below:

- 1. A Only
- 2. A & B Only
- 3. A, B & C Only
- 4. A, B, C & D

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=45957]
2[Option ID=45958]
3[Option ID=45959]
4[Option ID=45960]

Question Description : dwbv_pg_cms_eng_2_q64

SI. No.65
QBID:87065

Consider the following draw backs is/are of Rule based approach is/are:

- A. The learning is static.
- B. Any changes made to the original data will not be considered.
- C. Once trained the model cannot improve on the basis of feedback.

Choose the correct answer from the options given below:

- 1. All the above statements are correct
- 2. The statements A & B only are not correct
- 3. The statements B & C only are not correct
- 4. All the above statements are not correct

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=45961] Question Description : dwbv_pg_cms_eng_2_q65
2[Option ID=45962]
3[Option ID=45963]
4[Option ID=45964]

SI. No.66
QBID:87066

Match List I with List II

List I	List II
A. Linear Program	I. Prim's Algorithm
B. Predicate Logic	II. In order
C. Tree Traversal	III. Simplex Algorithm
D. Minimum Spanning Tree Problem	IV. First order logic

Choose the **correct** answer from the options given below:

- 1. A-IV; B-III; C-I; D-II
- 2. A-III; B-IV; C-II; D-I
- 3. A-II; B-IV; C-I; D-III
- 4. A-III; B-IV; C-I; D-II

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=45965] Question Description : dwbv_pg_cms_eng_2_q66
2[Option ID=45966]
3[Option ID=45967]
4[Option ID=45968]

SI. No.67
QBID:87067

Match **List I** with **List II**

List I	List II
A. DAA	I. Program Control instruction
B. LXI	II. Interrupt instruction
C. RST	III. Data Movement Instruction
D. JMP	IV. Arithmetic Instruction

Choose the **correct** answer from the options given below:

1. A-IV, B-II, C-I, D-III
2. A-IV, B-III, C-II, D-I
3. A-IV, B-II, C-III, D-I
4. A-III, B-IV, C-II, D-I

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45969] Question Description : dwbv_pg_cms_eng_2_q67
2[Option ID=45970]
3[Option ID=45971]
4[Option ID=45972]

SI. No.68
QBID:87068

Match **List I** with **List II**

List I	List II
A. 2-D Array Input	I. Liquid Crystal display
B. Transmissive device	II. Flat-bed scanner
C. Binary image	III. Camera
D. 1-D array input	IV. Ink jet printer

Choose the **correct** answer from the options given below:

1. A-I, B-III, C-II, D-IV
2. A-III, B-I, C-IV, D-II
3. A-III, B-I, C-II, D-IV
4. A-I, B-II, C-IV, D-III

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45973] Question Description : dwbv_pg_cms_eng_2_q68
2[Option ID=45974]
3[Option ID=45975]
4[Option ID=45976]

SI. No.69
QBID:87069

Match **List I** with **List II**

List I	List II
A. Timestamp protocol	I. As long as the transaction is already running, it will try to obtain the required lock in the first part
B. Strict two-phase locking protocol	II. Indicates final lock of the schedule
C. Two-phase locking	III. Ensures freedom from deadlock
D. Lock point in two phase locking protocol	IV. Ensures cascade -less rollback

Choose the **correct** answer from the options given below:

1. A-III, B-IV, C-II, D-I
2. A-III, B-IV, C-I, D-II
3. A-IV, B-III, C-II, D-I
4. A-IV, B-II, C-I, D-III

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=45977] Question Description : dwbv_pg_cms_eng_2_q69
2[Option ID=45978]
3[Option ID=45979]
4[Option ID=45980]

SI. No.70
QBID:87070

Match **List I** with **List II**

List I	List II
A. (reference bit=0, modify bit =0)	I. Must write out before replacement
B. (reference bit=0, modify bit =1)	II. Probably will be used again soon and need to write out
C. (reference bit=1, modify bit =0)	III. Best page to replace
D. (reference bit=1, modify bit =1)	IV. Probably will be used again soon

Choose the **correct** answer from the options given below:

1. A-II, B-I, C-III, D-IV
2. A-II, B-I, C-IV, D-III
3. A-III, B-I, C-II, D-IV
4. A-III, B-I, C-IV, D-II

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=45981] Question Description : dwbv_pg_cms_eng_2_q70
2[Option ID=45982]
3[Option ID=45983]
4[Option ID=45984]

SI. No.71
QBID:87071

Match **List I** with **List II**

List I	List II
A. Condition coverage.	I. Black box testing
B. Equivalence class Partitioning.	II. System testing
C. Volume testing.	III. White box testing
D. Alpha testing.	IV. Performance testing.

Choose the **correct** answer from the options given below:

1. A-II, B-III, C-IV, D-I
2. A-III, B-I, C-IV, D-II
3. A-IV, B-I, C-II, D-III
4. A-III, B-IV, C-I, D-II

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45985] Question Description : dwbv_pg_cms_eng_2_q71
2[Option ID=45986]
3[Option ID=45987]
4[Option ID=45988]

SI. No.72
QBID:87072

Match **List I** with **List II**

List I	List II
A. 8-Queens problem	I. Divide and conquer
B. Closest Pair of Points	II. Dynamic Programming
C. String Edit problem	III. Greedy Method
D. Knapsack problem	IV. Backtracking

Choose the **correct** answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-I, B-IV, C-II, D-III
3. A-IV, B-I, C-II, D-III
4. A-II, B-III, C-IV, D-I

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45989] Question Description : dwbv_pg_cms_eng_2_q72
2[Option ID=45990]
3[Option ID=45991]
4[Option ID=45992]

SI. No.73
QBID:87073

Match **List I** with **List II**

List I	List II
A. Initial Configuration of stack and input in LL Parsing process.	I. \$ w\$
B. Final Configuration of stack and input in LL Parsing process	II. \$ \$
C. Initial Configuration of stack and input in LR Parsing process	III. \$\$ w\$
D. Final Configuration of stack and input in LR Parsing process	IV. \$\$ \$

Choose the **correct** answer from the options given below:

1. A-III, B-IV, C-I, D-II
2. A-III, B-II, C-I, D-IV
3. A-II, B-III, C-IV, D-I
4. A-II, B-IV, C-I, D-III

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45993] Question Description : dwbv_pg_cms_eng_2_q73
2[Option ID=45994]
3[Option ID=45995]
4[Option ID=45996]

SI. No.74
QBID:87074

Match **List I** with **List II**

List I	List II
A. Physical Layer	I. Transforming the raw bits in the form of frame for transmission
B. Data Link Layer	II. Control and monitoring of subnet
C. Network Layer	III. Transmission of raw bits over communication channel
D. Transport Layer	IV. Datagrams Transmission data through connection oriented or connection less using datagrams

Choose the **correct** answer from the options given below:

1. A-III , B-II , C-I , D-IV
2. A-II , B-III , C-I , D-IV
3. A-III , B-I , C-II , D-IV
4. A-II , B-IV , C-I , D-III

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45997] Question Description : dwbv_pg_cms_eng_2_q74
2[Option ID=45998]
3[Option ID=45999]
4[Option ID=46000]

SI. No.75
QBID:87075

Match **List I** with **List II**

List I	List II
A. Regression	I. Unsupervised Learning.
B. KNN	II. Supervised Learning.
C. Clustering	
D. Decision Tree	

Choose the **correct** answer from the options given below:

1. A-I , B-II , C-I , D-II
2. A-II , B-II , C- I , D- II
3. A-I , B- II , C- II , D- I
4. A-II , B- II , C- II , D- I

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=46001] Question Description : dwbv_pg_cms_eng_2_q75
2[Option ID=46002]
3[Option ID=46003]
4[Option ID=46004]

SI. No.76
QBID:87076

Let 'G' be a simple, undirected graph with n ($n > 10$) vertices and 'k' connected components. What is the minimum possible number of edges of 'G'?

1. $k(n-1)$
2. $n(k-1)$
3. $n+k-2$
4. $n-k$

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=46005] Question Description : dwbv_pg_cms_eng_2_q76
2[Option ID=46006]
3[Option ID=46007]
4[Option ID=46008]

SI. No.77
QBID:87077

The sequence of events that happen during a typical fetch operation is/are:

- A. Memory
- B. MBR
- C. MAR
- D. PC
- E. IR

Choose the correct order from the options given below:

- 1. A, B, C, D, E
- 2. D, C, A, B, E
- 3. E, D, C, B, A
- 4. D, C, A, E, B

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=46009]

2[Option ID=46010]

3[Option ID=46011]

4[Option ID=46012]

Question Description : dwbv_pg_cms_eng_2_q77

SI. No.78

QBID:87078

Arrange the following search and sort algorithms in ascending order of their worst-case complexities.

- A. Merge sort
- B. Linear Search
- C. Bubble Sort
- D. Binary Search

Choose the correct answer from the options given below:

- 1. A, B, D, C
- 2. B, D, A, C
- 3. B, D, C, A
- 4. B, A, D, C

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=46013]

2[Option ID=46014]

3[Option ID=46015]

4[Option ID=46016]

Question Description : dwbv_pg_cms_eng_2_q78

SI. No.79

QBID:87079

Consider the following schedule S.

T1	T2	T3	T4	Timestamp
	R(X)	R(Y)		t1
	W(X)	W(Y)		t2
R(Y)			R(X)	t3
W(Y)			W(X)	t4
		R(X)		t5
		W(X)		t6

R(X) denotes read operation on data item X by transaction Ti.

W(X) denotes write operation on data item X by transaction Ti.

Choose the correct execution order for the above schedule S.

1. T3-T2-T1-T4
2. T2-T3-T1-T4
3. T2-T4-T3-T1
4. T4-T2-T3-T1

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=46017]
2[Option ID=46018]
3[Option ID=46019]
4[Option ID=46020]

Question Description : dwbv_pg_cms_eng_2_q79

SI. No.80
QBID:87080

A disk has 300 cylinders (0 to 299). If the initial position of the read-write head is at cylinder 101, moving towards the higher end of the disk, calculate the total head movement following C_LOOK policy for the read request sequence:

123, 45, 197, 87, 250, 198, 280

1. 456
2. 450
3. 458
4. 445

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=46021]
2[Option ID=46022]
3[Option ID=46023]
4[Option ID=46024]

Question Description : dwbv_pg_cms_eng_2_q80

SI. No.81
QBID:87081

The incremental model of software development is_____.

1. A reasonable approach when requirements are well defined.
2. A good approach when a working core product is required quickly.
3. The best approach to use for projects with large development teams.
4. A revolutionary model that is not used for commercial products.

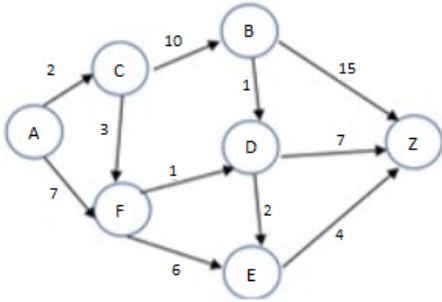
- (1) 1

- (2) 2
- (3) 3
- (4) 4

1[Option ID=46025] Question Description : dwbv_pg_cms_eng_2_q81
 2[Option ID=46026]
 3[Option ID=46027]
 4[Option ID=46028]

SI. No.82
 QBID:87082

Consider the graph given below. What is the order in which the nodes mentioned in the options are to be traversed to find the shortest path from A to Z using best first search?



- A. Node-A
- B. Node-B
- C. Node-C
- D. Node-D
- E. Node-E
- F. Node-F

Choose the correct answer from the options given below:

- 1. A→C→F→D→E
- 2. A→C→E→B
- 3. A→C→F→E→B
- 4. A→C→D→F

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=46029] Question Description : dwbv_pg_cms_eng_2_q82
 2[Option ID=46030]
 3[Option ID=46031]
 4[Option ID=46032]

SI. No.83
 QBID:87083

The precedence of regular expression operators from lowest to highest precedence is:

- 1. Star, Concatenation, Union
- 2. Union, Star, Concatenation
- 3. Union, Concatenation, Star
- 4. Star, Union, Concatenation

- (1) 1
- (2) 2

(3) 3

(4) 4

1[Option ID=46033] Question Description : dwbv_pg_cms_eng_2_q83
2[Option ID=46034]
3[Option ID=46035]
4[Option ID=46036]

SI. No.84
QBID:87084

Arrange the following in the correct order which respect to key generation for RSA algorithm.

- A. Choose an integer e such that $1 < e < \lambda(n)$
- B. Compute Key length $n = p \cdot q$
- C. Find d which is equal to $1/e$
- D. Choose two large prime numbers p and q
- E. Compute $\lambda(n)$

Choose the correct answer from the options given below:

- 1. A-B-C-D-E
- 2. D-C-B-E-A
- 3. D-B-E-A-C
- 4. A-B-D-E-C

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=46037] Question Description : dwbv_pg_cms_eng_2_q84
2[Option ID=46038]
3[Option ID=46039]
4[Option ID=46040]

SI. No.85
QBID:87085

Which of the following is related to function of layers in a neural network?

- A. Information → Input layer → Hidden layer
- B. Bias → output layer → hidden layer.
- C. Hidden layer → algorithm → output layer.
- D. Input layer → output layer → algorithms.

Choose the correct answer from the options given below:

- 1. Only sequence 'A' is correct.
- 2. Only sequence 'B' is correct.
- 3. Only sequence 'C' is correct.
- 4. Only sequence 'D' is correct.

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=46041] Question Description : dwbv_pg_cms_eng_2_q85
2[Option ID=46042]
3[Option ID=46043]
4[Option ID=46044]

SI. No.86
QBID:87086

Given below are the two statements:

Statement I : The main objective for using virtual memory is to increase the effective capacity of the memory system

Statement II : The size of virtual memory can be larger than the main memory

In the light of the above statements, choose the correct answer from the options given below

1. Both Statement I and Statement II are true.
2. Both Statement I and Statement II are false.
3. Statement I is true but Statement II is false.
4. Statement I is false but Statement II is true.

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=46045] Question Description : dwbv_pg_cms_eng_2_q86
2[Option ID=46046]
3[Option ID=46047]
4[Option ID=46048]

SI. No.87
QBID:87087

Given below are the two statements:

Statement I : Any retrieval request that is specified in the basic relational algebra can also be specified in relational calculus.

Statement II : Any retrieval request that is specified in the relational calculus can also be specified in basic relational algebra.

In the light of the above statements, choose the correct answer from the options given below:

1. Both Statement I and Statement II are true.
2. Both Statement I and Statement II are false.
3. Statement I is true but Statement II is false.
4. Statement I is false but Statement II is true.

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=46049] Question Description : dwbv_pg_cms_eng_2_q87
2[Option ID=46050]
3[Option ID=46051]
4[Option ID=46052]

SI. No.88
QBID:87088

The primary objectives of the SWE-IPT are to:

- A. Solicit stakeholder needs and expectations.
- B. Specify the software requirements for the product and post-development processes.
- C. Generate the integrated technical plans for accomplishing the software development effort.
- D. Translate stakeholder requirements into a complete, specified architectural description.
- E. Ensure that the software technical data package is sufficiently detailed to facilitate an efficient and effective software implementation.

Choose the correct answer from the options given below:

- 1. All the statements are correct.
- 2. Only B & C are correct.
- 3. Only A & E are correct.
- 4. Only C, D & E are correct.

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=46053] Question Description : dwbv_pg_cms_eng_2_q88
2[Option ID=46054]
3[Option ID=46055]
4[Option ID=46056]

SI. No.89
QBID:87089

Consider the following statements:

- (A) For every regular language, we can design Turing Machine
- (B) For every context free language, we can design Turing Machine

Which of the following is correct?

- 1. Statement-A is false and Statement-B is true.
- 2. Statement-A and Statement-B both are false.
- 3. Statement-A is true and Statement-B is false.
- 4. Statement-A and Statement-B both are true.

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=46057] Question Description : dwbv_pg_cms_eng_2_q89
2[Option ID=46058]
3[Option ID=46059]
4[Option ID=46060]

SI. No.90
QBID:87090

Given below are two statements: one is labelled as Assertion A and the other is labelled as Reason R.

A: Artificial Neural Networks are the backbone of deep learning algorithms.

R. Back propagation is one of the techniques used to train an ANN.

In the light of the above statements, choose the most appropriate answer from the options given below:

1. Both A and R are correct and R is the correct explanation of A.
2. Both A and R are correct but R is NOT the correct explanation of A.
3. A is correct but R is not correct.
4. A is not correct but R is correct.

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=46061] Question Description : dwbv_pg_cms_eng_2_q90
2[Option ID=46062]
3[Option ID=46063]
4[Option ID=46064]

Sl. No.91
QBID:87091

Use the following schema of the academic institution relational database:

student (rollno, name, degree, year, sex, deptno, advisor)

department (deptid, name, hod, phone)

professor (empid, name, sex, startyear, deptno, phone)

course (courseid, cname, credits, deptno)

enrollment (rollno, courseid, sem, year, grade)

teaching (empid, courseid, sem, year, classroom)

prerequisite (precourseid, courseid)

deptno is foreign key in the student, professor and course relations referring to deptid of department relation;

advisor is a foreign key in the student relation referring to empid of professor relation;

hod is a foreign key in the department relation referring to empid of professor relation;

rollno is a foreign key in the enrollment relation referring to rollno of student relation;

courseid is a foreign key in the enrollment, teaching relations referring to courseid of course relation;

empid is a foreign key of the teaching relation referring to empid of professor relation;

precourseid and courseid are foreign keys in the prerequisite relation referring to courseid of the course relation;

Which of the following queries would retrieve the roll number and names of students who have enrolled for all the prerequisite courses of the course number 324?

1. Select s.rollno, s.name From student s, enrollment e Where e.rollno = s.rollno and e.courseid = ANY (select precourseid from prerequisite p where p.courseid = "324")
2. Select s.rollno, s.name From student s, enrollment e Where e.rollno = s.rollno and e.courseid = ALL (select precourseid from prerequisite p where p.courseid = "324")
3. Select s.rollno, s.name From student s Where NOT EXISTS (select * prerequisite p where p.courseid = "324") and NOT EXISTS (select * from enrollment e where e.courseid = p.precourseid and e.rollno = s.rollno)
4. Select s.rollno, s.name From student s Where EXISTS (select * prerequisite p where p.courseid = "324") and EXISTS (select * from enrollment e where e.courseid = p.precourseid and e.rollno = s.rollno)

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=46065]

Question Description : dwbv_pg_cms_eng_2_q91

2[Option ID=46066]

3[Option ID=46067]

4[Option ID=46068]

Sl. No.92

QBID:87092

Use the following schema of the academic institution relational database:

student (rollno, name, degree, year, sex, deptno, advisor)

department (deptid, name, hod, phone)

professor (empid, name, sex, startyear, deptno, phone)

course (courseid, cname, credits, deptno)

enrollment (rollno, courseid, sem, year, grade)

teaching (empid, courseid, sem, year, classroom)

prerequisite (precourseid, courseid)

deptno is foreign key in the student, professor and course relations referring to deptid of department relation;

advisor is a foreign key in the student relation referring to empid of professor relation;

hod is a foreign key in the department relation referring to empid of professor relation;

rollno is a foreign key in the enrollment relation referring to rollno of student relation;

courseid is a foreign key in the enrollment, teaching relations referring to courseid of course relation;

empid is a foreign key of the teaching relation referring to empid of professor relation;

precourseid and courseid are foreign keys in the prerequisite relation referring to courseid of the course relation;

Given query: select s.rollno from students where s.sex = ALL (select f.sex from professor f where f.empid = s.advisor)

Consider the following statements about the given query that retrieves the set of all students whose gender is same as the gender of their advisor:

- S1. It has a correlated subquery
- S2. It has an uncorrelated subquery
- S3. If we replace ALL by ANY in the above query, its result will be different
- S4. If we replace ALL by ANY in the above query, its result will be same.

Identify all the statement that are TRUE:

- 1. S1 and S3 are true
- 2. S1 and S4 are true
- 3. S2 and S3 are true
- 4. S2 and S4 are true

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=46069]

2[Option ID=46070]

3[Option ID=46071]

4[Option ID=46072]

Question Description : dwbv_pg_cms_eng_2_q92

SI. No.93
QBID:87093

Use the following schema of the academic institution relational database:

student (rollno, name, degree, year, sex, deptno, advisor)

department (deptid, name, hod, phone)

professor (empid, name, sex, startyear, deptno, phone)

course (courseid, cname, credits, deptno)

enrollment (rollno, courseid, sem, year, grade)

teaching (empid, courseid, sem, year, classroom)

prerequisite (precourseid, courseid)

deptno is foreign key in the student, professor and course relations referring to deptid of department relation;

advisor is a foreign key in the student relation referring to empid of professor relation;

hod is a foreign key in the department relation referring to empid of professor relation;

rollno is a foreign key in the enrollment relation referring to rollno of student relation;

courseid is a foreign key in the enrollment, teaching relations referring to courseid of course relation;

empid is a foreign key of the teaching relation referring to empid of professor relation;

precourseid and courseid are foreign keys in the prerequisite relation referring to courseid of the course relation;

Which of the following queries would compute, for each department, the total credits of all the courses offered by the department?

1. select deptid, name, sum(credits) as totalcredits
from department, course

where deptid=deptno

group by deptid, name;
2. select deptid, name, count(credits) as totalcredits
from department, course

where deptid=deptno

group by deptid, name;
3. select deptid, name, sum(credits) as totalcredits
from department, course

where deptid=deptno
4. select deptid, name, sum(credits) as totalcredits
from department, course

group by deptid, name

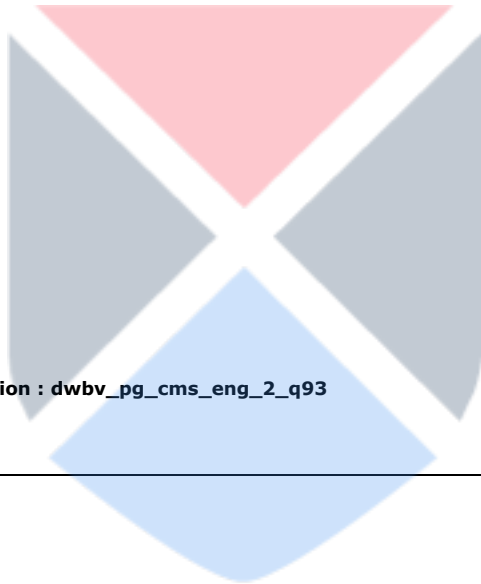
having deptid=deptno;

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=46073]
2[Option ID=46074]
3[Option ID=46075]
4[Option ID=46076]

Question Description : dwbv_pg_cms_eng_2_q93

Sl. No.94
QBID:87094



Use the following schema of the academic institution relational database:

student (rollno, name, degree, year, sex, deptno, advisor)

department (deptid, name, hod, phone)

professor (empid, name, sex, startyear, deptno, phone)

course (courseid, cname, credits, deptno)

enrollment (rollno, courseid, sem, year, grade)

teaching (empid, courseid, sem, year, classroom)

prerequisite (precourseid, courseid)

deptno is foreign key in the student, professor and course relations referring to deptid of department relation;

advisor is a foreign key in the student relation referring to empid of professor relation;

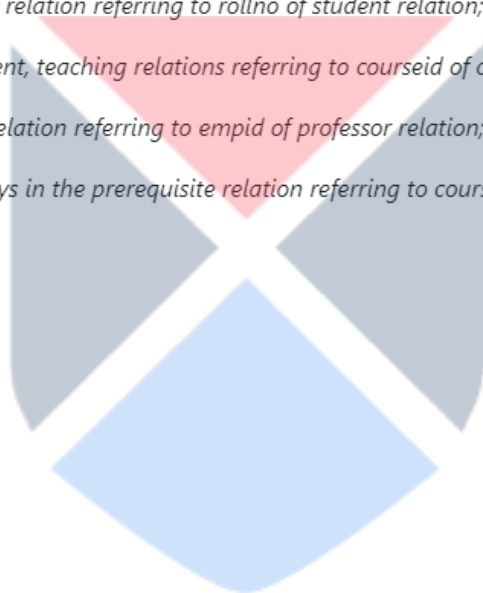
hod is a foreign key in the department relation referring to empid of professor relation;

rollno is a foreign key in the enrollment relation referring to rollno of student relation;

courseid is a foreign key in the enrollment, teaching relations referring to courseid of course relation;

empid is a foreign key of the teaching relation referring to empid of professor relation;

precourseid and courseid are foreign keys in the prerequisite relation referring to courseid of the course relation;



Which of the following queries would retrieve the dept id and name of all the departments that are such that the total of the credits of all the offered courses by the department is strictly greater than 40?

1. select deptid, name, sum(credits) as totalcredits
from department, course

where totalcredits > 40

group by deptid, name

having deptid = deptno;

2. select deptid, name, sum(credits) as totalcredits
from department, course

where deptid = deptno and totalcredits > 40

group by deptid, name;

3. select deptid, name, sum(credits) as totalcredits
from department, course

group by deptid, name

having deptid = deptno and totalcredits > 40;

4. select deptid, name, sum(credits) as totalcredits
from department, course

where deptid = deptno

group by deptid, name

having totalcredits > 40;

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=46077]
2[Option ID=46078]
3[Option ID=46079]
4[Option ID=46080]

Question Description : dwbv_pg_cms_eng_2_q94

Sl. No.95
QBID:87095

Use the following schema of the academic institution relational database:

student (rollno, name, degree, year, sex, deptno, advisor)

department (deptid, name, hod, phone)

professor (empid, name, sex, startyear, deptno, phone)

course (courseid, cname, credits, deptno)

enrollment (rollno, courseid, sem, year, grade)

teaching (empid, courseid, sem, year, classroom)

prerequisite (precourseid, courseid)

deptno is foreign key in the student, professor and course relations referring to deptid of department relation;

advisor is a foreign key in the student relation referring to empid of professor relation;

hod is a foreign key in the department relation referring to empid of professor relation;

rollno is a foreign key in the enrollment relation referring to rollno of student relation;

courseid is a foreign key in the enrollment, teaching relations referring to courseid of course relation;

empid is a foreign key of the teaching relation referring to empid of professor relation;

precourseid and courseid are foreign keys in the prerequisite relation referring to courseid of the course relation;

Given query:

```
select s.rollno, s.name
from student s
where EXISTS (select c.courseid from course c Where c.deptno=5 and
EXISTS (select e.* from enrollemnt e
where e.courseid = c.courseid and
e.rollno = s.rollno));
```

Which one of the following statements is correct with respect to the given query?

1. It retrieves the roll number and names of students who have not enrolled for all course offered by department number 5.
2. It retrieves the roll number and names of students who have enrolled for all course offered by department number 5.
3. It retrieves the roll number and names of students who have enrolled for at least one course offered by department number 5.
4. It retrieves the roll number and names of students who are such that there exists at least one course offered by department number 5 which is not enrolled by the student.

(1) 1

(2) 2

(3) 3

(4) 4

2[Option ID=46082]
3[Option ID=46083]
4[Option ID=46084]

SI. No.96
QBID:87096

Read the passage carefully and answer the question that follows

For a knapsack problem, P and W are profits and weights for a set of 7 items as given below:

$$P=\{9,5,2,7,6,16,9\}$$

$$W=\{2,5,6,11,1,9,3\}$$

Find the optimal solution for fractional knapsack problem when its maximum capacity is 15.

1. 43
2. 40
3. 45
4. 44

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=46085]
2[Option ID=46086]
3[Option ID=46087]
4[Option ID=46088]

Question Description : dwbv_pg_cms_eng_2_q96

SI. No.97
QBID:87097

Read the passage carefully and answer the question that follows

For a knapsack problem, P and W are profits and weights for a set of 7 items as given below:

$$P=\{9,5,2,7,6,16,9\}$$

$$W=\{2,5,6,11,1,9,3\}$$

What is the maximum value of items you can carry if maximum weight allowed is 25 with a fractional knapsack?

1. 48.1
2. 49
3. 47.9
4. 40

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=46089]
2[Option ID=46090]
3[Option ID=46091]
4[Option ID=46092]

Question Description : dwbv_pg_cms_eng_2_q97

SI. No.98
QBID:87098

Read the passage carefully and answer the question that follows

For a knapsack problem, P and W are profits and weights for a set of 7 items as given below:

$$P=\{9,5,2,7,6,16,9\}$$

$$W=\{2,5,6,11,1,9,3\}$$

If new item (P=5, W=2) is added to the list, total items is 8 and capacity is 25, then the best-case time of fractional knapsack for this case is _____.

1. O(8)
2. O(64)
3. O(24)
4. O(56)

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=46093]
2[Option ID=46094]
3[Option ID=46095]
4[Option ID=46096]

Question Description : dwbv_pg_cms_eng_2_q98

SI. No.99
QBID:87099

Read the passage carefully and answer the question that follows

For a knapsack problem, P and W are profits and weights for a set of 7 items as given below:

$$P=\{9,5,2,7,6,16,9\}$$

$$W=\{2,5,6,11,1,9,3\}$$

The most efficient solution for the fractional knapsack problem with maximum capacity 15 can be obtained by using_____.

1. Divide and Conquer
2. Dynamic Programming
3. Greedy Algorithm
4. Backtracking

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=46097]
2[Option ID=46098]
3[Option ID=46099]
4[Option ID=46100]

Question Description : dwbv_pg_cms_eng_2_q99

SI. No.100
QBID:870100

Read the passage carefully and answer the question that follows

For a knapsack problem, P and W are profits and weights for a set of 7 items as given below:

$P=\{9,5,2,7,6,16,9\}$

$W=\{2,5,6,11,1,9,3\}$

Which of the following statements is correct for a knapsack?

1. 0/1 knapsack can be applied for all kinds of problems but fractional knapsack can be applied only if the problem meets certain conditions.
2. There is no difference between the two. They give the same solution for any problem.
3. We use greedy algorithm for 0/1 knapsack and dynamic programming for fractional knapsack.
4. In 0/1 knapsack problem, items cannot be divided into smaller portions and in fractional knapsack we can divide the item into required proportions of weight.

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=45741]

2[Option ID=45742]

3[Option ID=45743]

4[Option ID=45744]

Question Description : dwbv_pg_cms_eng_2_q100

