

प्रथम 10 मिनट में अभ्यर्थी अपनी प्रश्न-पुस्तिका के क्रमांक का मिलान ओ०एम०आर० उत्तर पत्रक के क्रमांक से अवश्य कर लें। यदि ओ०एम०आर० उत्तर पत्रक व प्रश्न-पुस्तिका के क्रमांक भिन्न हैं तो केन्द्र अधीक्षक से निवेदन करके प्रश्न-पुस्तिका बदल लें।

Level : 1
PRT : For Classes I to V

Exam. – 2022

Sub. Code No. : 701

प्रश्न-पुस्तिका क्रमांक एवं ओ०एम०आर० क्रमांक
Question-Booklet Serial No. & O. M. R. Serial No.

अनुक्रमांक (अंकों में) :

SET : A

Roll No. (In Figures)

अनुक्रमांक (शब्दों में) : _____

Roll No. (In Words)

परीक्षा केन्द्र का नाम : _____

Name of Examination Centre

अभ्यर्थी का नाम : _____

Name of Candidate

अभ्यर्थी के हस्ताक्षर : _____

Signature of Candidate

इस प्रश्न-पुस्तिका में पृष्ठों की संख्या No. of Pages in this Question Booklet	48	प्रश्नों की संख्या No. of Questions	150	समय Time	2½ hours
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निरीक्षक के हस्ताक्षर (Signature of Invigilator) : _____

अभ्यर्थी को 10 मिनट का समय प्रश्न-पुस्तिका पर छपे निर्देशों को पढ़ने तथा उत्तर पत्रक में अपने विवरण भरने के लिए दिया जाएगा। यदि प्रश्न-पुस्तिका व उत्तर पत्रक की क्रम संख्या गलत अंकित हों तो तुरन्त केन्द्र अधीक्षक से निवेदन करके प्रश्न-पुस्तिका बदल लें। इसके पश्चात् कोई दावा स्वीकार नहीं किया जाएगा। इन 10 मिनटों के अतिरिक्त, प्रश्नों के उत्तर अंकित करने के लिए पूरे 2½ घंटे का समय दिया जाएगा। यदि किसी अभ्यर्थी को प्रश्न-पुस्तिका में दिए गए किसी भी प्रश्न में कोई त्रुटि होने का सदिह हो तो इसके लिए अभ्यर्थियों को परीक्षा समाप्ति के उपरान्त प्रतिवेदन देने के लिए अवसर दिया जाएगा। अतः अभ्यर्थी निर्धारित अवसर के दौरान इस सम्बन्ध में अपना प्रतिवेदन बोर्ड कार्यालय में दर्ज करवा सकते हैं। इस अवसर के बाद, इस सम्बन्ध में प्राप्त प्रतिवेदनों पर कोई विचार नहीं किया जाएगा।

यदि किसी प्रश्न में हिन्दी व अंग्रेजी माध्यम में भिन्नता है तो अंग्रेजी माध्यम का प्रश्न ठीक माना जाएगा।

If there is any variance between Hindi and English Version of any question then English Version would be considered correct.

अभ्यर्थियों के लिए निर्देश

- ओ.एम.आर. उत्तर पत्रक इस प्रश्न-पुस्तिका के अन्दर रखा है। जब आपको प्रश्न-पुस्तिका पढ़ने को कहा जाए, तो उत्तर पत्रक निकाल कर ध्यान से केवल काले बॉल प्वाइंट पेन से विवरण भरें।
- परीक्षा की अवधि 2½ घंटे है एवं प्रश्न-पुस्तिका में 150 प्रश्न हैं। कोई ऋणात्मक अंकन नहीं है।
- अपने विवरण अंकित करने एवं उत्तर पत्रक पर निशान लगाने के लिए केवल काले बॉल प्वाइंट पेन का प्रयोग करें। अभ्यर्थी प्रश्न-पुस्तिका का उपयोग करने एवं उत्तर पत्रक को भरने में सावधानी बरतें।
- प्रथम 10 मिनट में, यह भी सुनिश्चित कर लें कि प्रश्न-पुस्तिका क्रमांक और उत्तर पत्रक क्रमांक एक ही हैं। अगर यह भिन्न हों तो अभ्यर्थी दूसरी प्रश्न-पुस्तिका और उत्तर पत्रक लेने के लिए पर्यवेक्षक को तुरन्त अवगत करवाएं।

INSTRUCTIONS FOR THE CANDIDATES

- The OMR Answer Sheet is inside this Question Booklet. When you are directed to read the Question Booklet, take out the OMR Answer Sheet and fill in the particulars carefully with black ball point pen only.
- The test is of two-and-half hours duration and consists of 150 questions. There is no negative marking.
- Use Black Ball Point Pen only for writing particulars on this page/darkening responses in the Answer Sheet. The candidate should remain careful in handling the question paper and in darkening the responses on the answer sheet.
- Within first 10 minutes, also ensure that your Question Booklet Serial No. and Answer Sheet Serial No. are the same. In case of discrepancy, the candidate should immediately report the matter to the Invigilator for replacement of both the Question Booklet and the Answer Sheet.

5. लेवल-1 (कक्षा I से V के लिए)

- भाग-I : बाल विकास व शिक्षा शास्त्र (प्र० 1 से प्र० 30)
भाग-II : भाषा : (प्र० 31 से प्र० 60)
(हिन्दी : 15 प्रश्न व अंग्रेजी : 15 प्रश्न)
भाग-III : सामान्य अध्ययन : (प्र० 61 से प्र० 90)
(मात्रात्मक योग्यता : 10 प्रश्न, तार्किक अभिक्षमता : 10 प्रश्न,
सामान्य ज्ञान एवं अभिज्ञान : 10 प्रश्न)
भाग-IV : गणित (प्र० 91 से प्र० 120)
भाग-V : पर्यावरण अध्ययन (प्र० 121 से प्र० 150)

5. Level-1 (For Classes I to V)

- Part-I : Child Development and Pedagogy (Q. 1 to Q. 30)
Part-II : Language : (Q. 31 to Q. 60)
(Hindi : 15 Q. & English : 15 Q.)
Part-III : General Studies : (Q. 61 to Q. 90)
(Quantitative Aptitude : 10 Q, Reasoning Ability : 10 Q, G. K. & Awareness : 10 Q)
Part-IV : Mathematics (Q. 91 to Q. 120)
Part-V : Environmental Studies (Q. 121 to Q. 150)

नोट : कृपया इस पुस्तिका के अन्त में दिए गए शेष निर्देशों को पढ़ें। (Please read other remaining instructions given on the last page of this booklet.)

रफ कार्य के लिए (FOR ROUGH WORK)

2. Reversibility ability develops in the stage :

- [1] Concrete operational stage
- [2] Preoperational stage
- [3] Formal operational stage
- [4] Sensory motor stage

The concept of 'Law of Proximity' has been given by whom ?

- [1] Thorndike
- [2] Pavlov
- [3] Skinner
- [4] Wertheimer

The study of which of the following lies at the intersection point of Psychology and Child development ?

- [1] Social Psychology
- [2] Industrial Psychology
- [3] Organizational Psychology
- [4] Developmental Psychology

Who was the founder of first laboratory of Psychology ?

- [1] William Wunt
- [2] Alder Alfred
- [3] Cyril Burt
- [4] Jean Piaget

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- [4] Jean Piaget

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% Which of the following is not stage of Piaget's Cognitive Development ?

[1] Concrete Operational Stage

[2] Preoperational Stage

[3] Latency Stage

[4] Sensory Motor Stage

& 'Imaginary Audience' is related to which stage ?

[1] Early childhood stage

[2] Late childhood stage

[3] Adulthood

[4] Adolescence

___ A child says 'The moon is laughing'. It indicates which of the following characteristics ?

[1] Egocentrism

[2] Animism

[3] Positivism

[4] Negativism

___ Which statement is correct according to Operant Conditioning ?

[1] Negative reinforcement increases desirable behaviour.

[2] Once a behaviour is learned, it is not forgotten.

[3] Punishment is positive reinforcement.

[4] Negative reinforcement increases undesirable behaviour.

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!_ Sigmund Freud is known for :

[1] Social development theory

[2] Psycho sexual development theory

[3] Cognitive development theory

[4] Moral development theory

!# 90-110 is range of I. Q. represents
which category of intelligence ?

[1] Very superior

[2] Average

[3] Dull

[4] Fool

!\$ Which of the following technique is
used to teach Visually Impaired
Children ?

[1] PECS

[2] Sign Language

[3] Taylor Frame

[4] None of these

!_ The research carried out on Bobo
Doll supports which theoretical view
of learning ?

[1] Insight learning

[2] Latent learning

[3] Place learning

[4] Social learning

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!% According to Kohlberg, the development of morality to avoid punishment comes under which level ?

[1] Pre-conventional level

[2] Conventional level

[3] Post-conventional level

[4] None of these

!& The term 'Learning Disability' was first coined by whom ?

[1] Kanner

[2] Down

[3] Samuel Kirk

[4] Sigmund Freud

— 'The attraction of boy towards his mother' was termed by Freud as :

[1] Electra Complex

[2] Oedipus Complex

[3] Moral Conflict

[4] Oral Complex

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[3] %N

[4] #

___ Synonym of 'hate' is :

- [1] docile [2] creep
[3] anger [4] dislike

___ Fill in the blanks with the correct prepositions :

The boy fell the well
10 O'clock.

- [1] in, on [2] into, at
[3] into, on [4] in, at

___ Harishhimself wrote the poem.

The underlined words are :

- [1] Noun, Pronoun
[2] Noun, Adjective
[3] Noun, Adverb
[4] Noun, Noun

___ The superlative degree of 'Far' is :

- [1] Farther
[2] Farthest
[3] Most far
[4] Most farther

___ The young one of a bear is :

- [1] calf [2] cub
[3] fawn [4] foal

___ Fill in the blanks with the correct forms of the Verb :

What you with
this knife yesterday ?

- [1] do, did
[2] do, do
[3] did, do
[4] did, did

___ The milk has turned sour

The underlined word is :

- [1] Noun
[2] Pronoun
[3] Adjective
[4] Adverb

___ Antonym of 'Cool' is :

- [1] Cold
[2] Colder
[3] Hot
[4] Warmer

— Choose the correct spelling of the given word :

- [1] bungalowe
- [2] bangalow
- [3] bangelow
- [4] bungalow

— Choose the part of the sentence that is incorrect :

Keats is a quiet good poet

- (A) (B) (C)

among the romantic poets

(D)

- [1] A [2] B
- [3] C [4] D

— Choose the correct option to fill in the blank :

Amartya Sen Gupta isN. R. I.

- [1] a [2] an
- [3] the [4] ‘

— She sang a 'sweet' song.

'sweet' here is :

- [1] Adverb [2] Adjective
- [3] Noun [4] Pronoun

— One word for 'A child whose parents are dead' is :

- [1] Sibling
- [2] Orphan
- [3] Bigot
- [4] Bastard

— Choose the grammatically correct sentence :

- [1] John has been living in Egypt for 1942.
- [2] John had lived in Egypt for 1942.
- [3] John has been living in Egypt since 1942.
- [4] John have lived in Egypt since 1942.

— Match the following :

- | | |
|----------|------------|
| (a) Ass | (i) quack |
| (b) Duck | (ii) hum |
| (c) Fly | (iii) bray |
| (d) Bee | (iv) buzz |

- [1] a-i, b-ii, c-iii, d-iv
- [2] a-iii, b-i, c-ii, d-iv
- [3] a-iii, b-i, c-iv, d-ii
- [4] a-iii, b-ii, c-iv, d-i

! " # \$ %
!" # \$ % & # ' (! ') *

& $\sqrt{6+\sqrt{6+\sqrt{6+\dots}}}$ is equal to :

- [1] 3 [2] 4
[3] 5 [4] 6

& 4,000 for 2 years at the rate of 5% per annum ?

- [1] 8.75-!
[2] 9.00-!
[3] 10.00-!
[4] 11.25-!

& If the selling price of 12 articles is equal to the cost price of 15 articles, then the profit percentage is :

- [1] 20% [2] 25%
[3] 30% [4] 36%

& If $\frac{80}{x} = 24$, then what would be the value of 'x' ?

- [1] $\frac{3}{10}$ [2] $\frac{3}{17}$
[3] 1 [4] 2

& $\sqrt{6+\sqrt{6+\sqrt{6+\dots}}}$ is equal to :

- [1] 3 [2] 4
[3] 5 [4] 6

& What will be the difference between compound and simple interest on a sum of Rs. 4,000 for 2 years at the rate of 5% per annum ?

- [1] Rs. 8.75
[2] Rs. 9.00
[3] Rs. 10.00
[4] Rs. 11.25

& If the selling price of 12 articles is equal to the cost price of 15 articles, then the profit percentage is :

- [1] 20% [2] 25%
[3] 30% [4] 36%

& If $\frac{30\% \text{ of } 80}{x} = 24$, then what would be the value of 'x' ?

- [1] $\frac{3}{10}$ [2] $\frac{3}{17}$
[3] 1 [4] 2

&

& % 9 3

2, [2+2, { 2+2, (2+2, 3)}]
&% &% +,

[1] —

[2] —

[3] —

[4] $\frac{1}{—}$

&& 9 3

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[3]

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[1] 3600 [2] 3800

[3] 4000 [4] 4200

&* 1 < 1 9 !

9 3

KTE, SBM, AJU, IRC, ?

[1] QZL [2] QZM

[3] QZN [4] QZK

& Simplify :

2, [2+2, { 2+2, (2+2, 3)}] is
equal to :

[1] —

[2] —

[3] —

[4] $\frac{1}{—}$

&& Find the odd one :

[1] Article

[2] Story

[3] Poem

[4] Novel

& The population of a town increases
at the rate of 5% annually. If the
present population is 4410, what was
it 2 years ago ?

[1] 3600 [2] 3800

[3] 4000 [4] 4200

&* Find the next term of the following
letter series :

KTE, SBM, AJU, IRC, ?

[1] QZL [2] QZM

[3] QZN [4] QZK

&+ 93 < 19 !

4, 10, 23, 50, 105, ?

- [1] 215
- [2] 216
- [3] 218
- [4] 220

— P, Q & R, P = >S, T
& Q = > +, ?
& , +, 6

- [1] P [2] Q
- [3] S [4] T

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36 7 ? *
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? @ +,

- [1] 2500 9>%
- [2] 2601 9>%
- [3] 2809 9>%
- [4] 2916 9>%

— $\sqrt{2^n} = 64 + n +,$

- [1] 8 [2] 10
- [3] 6 [4] 12

&+ Find the next term of the following number series :

4, 10, 23, 50, 105, ?

- [1] 215
- [2] 216
- [3] 218
- [4] 220

— If P is taller than Q, R is shorter than P, S is taller than T but shorter than Q, then who among them is the tallest ?

- [1] P [2] Q
- [3] S [4] T

— In order to fence a square fixed 36 poles were used. If the distance between two consecutive poles is 6 meters, then the area of the square is :

- [1] 2500 sq. m
- [2] 2601 sq. m
- [3] 2809 sq. m
- [4] 2916 sq. m

— If $\sqrt{2^n} = 64$, then the value of n is :

- [1] 8 [2] 10
- [3] 6 [4] 12

*

(' 8> 5
 'CERTAIN' 'XVIGZRM'
 'SEQUENCE' 'HVJFVMXV'
 3 +, 'MUNDANE'
 8> 5 3

- [1] NFMWZMX
- [2] NFMXZMV
- [3] NFMWZMV
- [4] NFMWZXM

) 1 < 1 9 !
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AZ, GT, MN, SH, ?

- [1] YC [2] ZC
- [3] ZB [4] YB

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6241 = 9, 3732 = 20+
 4523&% &% +,

- [1] 18
- [2] 23
- [3] 21
- [4] 26

(If in a certain Code Language,
 'CERTAIN' is coded as 'XVIGZRM'
 and 'SEQUENCE' is coded as
 'HVJFVMXV', then 'MUNDANE' is
 coded as :

- [1] NFMWZMX
- [2] NFMXZMV
- [3] NFMWZMV
- [4] NFMWZXM

) Find the next term of the following
 letter series

AZ, GT, MN, SH, ?

- [1] YC [2] ZC
- [3] ZB [4] YB

— Some equations are solved on the
 basis of a certain system. On the
 same basis, find the correct answer
 for the unsolved problem :

If 6241 = 9, and 3732 = 20, then
 4523 is equal to :

- [1] 18
- [2] 23
- [3] 21
- [4] 26

& M +, # 9 9

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[2] + $\sqrt{\quad}$ +

[3] + $\sqrt{\quad}$ -

[4] +

— A B ? + C D & + A,

!) D ? +, B, C

!" % & +, 6

[1] ! [2] ' '

[3] ? [4]

* A 7^2 93 !81).

i. 4

ii. %

iii. 2

iv. 4

[1] ii, iii, i, iv [2] ii, iii, iv, i

[3] i, iii, ii, iv [4] i, ii, iii, iv

± 6 - x - 2x²)1 B +,

[1] + -

[2] + -

[3] - -

[4] - -

* $\sqrt{1 + \sqrt{1 - \frac{2176}{2401}}} = 1 + \frac{x}{7}$ +,

[1] 1 [2] 3

[3] 5 [4] 7

+

& If M is a square number, then the next immediate square number is

[1] +

[2] + $\sqrt{\quad}$ +

[3] + $\sqrt{\quad}$ -

[4] +

— A and B are brothers C and D are sisters, A's son is D's brother. How is B related to C ?

[1] Father [2] Uncle

[3] Brother [4] Grandfather

* Arrange the given words in a meaningful sequence :

i. Phrase

ii. Letter

iii. Word

iv. Sentence

[1] ii, iii, i, iv [2] ii, iii, iv, i

[3] i, iii, ii, iv [4] i, ii, iii, iv

± The factors of 6 - x - 2x² are :

[1] + -

[2] + -

[3] - -

[4] - -

* If $\sqrt{1 + \sqrt{1 - \frac{2176}{2401}}} = 1 + \frac{x}{7}$, then the value of is :

[1] 1 [2] 3

[3] 5 [4] 7

* + % 1 9 & CD'9 Ü/B;9
 E % 9 +(F 7 +,
 [1] ! ')
 [2] &
 [3]) %
 [4] 39

*')- " + %9 !" %1
 7 ! & 9 ? 9 6
 [1] 5 2015 [2] 5 2017
 [3] 5 2016 [4] 5 2018

* (, - % ,
 7 +, 6
 [1] % + %
 [2] &% %
 [3] & % + %
 [4] ! ') 9 %

*) + % 1 & %
 ! ::
 (i) G 7 + +, *
 (ii) 7 9) 4
 + % 1 % H ! I % €
 +, *
 + > ' 9 3
 [1] (i) +, *
 [2] (ii) +, *
 [3] (i) , % + (ii) +, *
 [4] (i) , % (ii) +, *

* "Morni Hills" the highest ranges of
 Haryana are situated in :
 [1] Panchkula
 [2] Ambala
 [3] Yamunanagar
 [4] Jind

*' When Gurugram Metropolitan
 Development Authority was
 established ?
 [1] Year 2015 [2] Year 2017
 [3] Year 2016 [4] Year 2018

* (Which of the following temples is
 situated in Kaithal ?
 [1] Sarveshwar Mahadev Temple
 [2] Birla Temple
 [3] Ambekeshwar Mahadev Temple
 [4] Panchmukhi Temple

*) Read the following statements about
 Haryana Public Service Commission :
 (i) The Commission consists of one
 Chairman and maximum eight
 members.
 (ii) The Chairman and other
 members are appointed by the
 Governor of Haryana.
 Choose the correct code :
 [1] Only statement (i) is true.
 [2] Only statement (ii) is true.
 [3] Neither (i) nor (ii) is true.
 [4] Both (i) and (ii) are true.

* 1857 3 9 /) &
+)?

- [1] !
- [2] %) %
- [3] "8 9
- [4] +) '

*& E! % % !+' ! 3 F & %
! ::

(i) 3 + + % 1 7
! % % J 9
B > & , % 3 % + + , *

(ii) 7 ,38 3 D 3,
= / \$ D 2 B9 ! % %
! 3 B;9 3 D 9*

~~+98~~ > ' 9 3

- [1] (i) +, *
- [2] (ii) +, *
- [3] (i) , % + (i) +, *
- [4] (i) , % (ii) +, *

* + % d) 8')4 ,
+, 6

- [1] <9 % " +
- [2] <9 ' " !"
- [3] <9 3
- [4] <9 3 + & ?

* The hero of 1857, who died in
Kabul :

- [1] Gopal Das
- [2] Rao Tula Ram
- [3] Sadruddin
- [4] Hukam Chand

*& Read the following statements about
'Parivar Pehchan Patra Yojana' :

- (i) Under the scheme authentic and reliable database of all the families of Haryana is being created.
- (ii) All the existing schemes such as various scholarships and subsidies will be linked with Parivar Pehchan Patra.

Choose the correct code :

- [1] Only statement (i) is true.
- [2] Only statement (ii) is true.
- [3] Neither (i) nor (ii) is true.
- [4] Both (i) and (ii) are true.

* Who is the Chief Information
Commissioner of Haryana ?

- [1] Shri Narendra Singh Yadav
- [2] Shri Chandra Prakash
- [3] Shri Vijai Vardhan
- [4] Shri Jai Singh Bishnoi

** + % 1 % H '))4 , +, 6

[1])% "

[2] ! +

[3] 9K # %

[4]

*+ E B; / F + % 1
3 +, 6

[1] + 9 % !%

[2] 9 % !%

[3] 93 % !%

[4] 9 % !%

+ "9 B; !"3 @ 7 +,

[1] &

[2] + %

[3] ! 9!

[4] %

** Who is the State Election Commissioner of Haryana ?

[1] Anurag Agrawal

[2] Dhanpat Singh

[3] V. Umashankar

[4] Nitin Yadav

*+ On which occasion 'Khodia Dance' is performed in Haryana ?

[1] On the occasion of Holi

[2] On the occasion of Wedding

[3] On the occasion of Teej

[4] On the occasion of Goga Navami

+ Central Sheep Breeding Farm is situated at :

[1] Ambala

[2] Hisar

[3] Panipat

[4] Karnal

!" !"
!

! " #

<p>\$ $27^{x-\frac{2}{3}} = 81$, 2^{3x+1} \$</p> <p>%</p> <p>[1] 64 [2] 128</p> <p>[3] 256 [4] 512</p>	<p>\$ If $27^{x-\frac{2}{3}} = 81$, then value of 2^{3x+1} is :</p> <p>[1] 64 [2] 128</p> <p>[3] 256 [4] 512</p>
<p>\$ 30% & ' $\frac{1}{6}$</p> <p>% () * 140</p> <p>%+ ,-' \$ %</p> <p>[1] 110</p> <p>[2] 50</p> <p>[3] 60</p> <p>[4] 90</p>	<p>\$ If 30% of a number is equal to $\frac{1}{6}$ of the second number and the sum of these numbers is 140, then the value of larger number is :</p> <p>[1] 110</p> <p>[2] 50</p> <p>[3] 60</p> <p>[4] 90</p>

%

\$. " ' " / * \$ +
, - ' " \$ %

[1] , -

[2] 0 1

[3]

[4] * 2

\$% 3 "ASSESSMENT" ' *4
3 % 5

[1] 21600

[2] 30240

[3] 151200

[4] 75600

\$ If two sides of a triangle are unequal,
then opposite angle of larger side is :

[1] greater

[2] small

[3] equal

[4] half

\$% How many words can be formed
from the all letters of word
"ASSESSMENT" ?

[1] 21600

[2] 30240

[3] 151200

[4] 75600

&

\$& " * * * " 1 : 4 %
* % 6 7 \$ 4 : 5 * "
\$ % + ' 8/) * " %

- [1] 5 : 16
- [2] 25 : 64
- [3] 3 : 4
- [4] 64 : 25

\$' $\sqrt{7 + \sqrt[3]{x}} = 4 + x$ \$ %

- [1] 27
- [2] 729
- [3] 512
- [4] 216

\$& Ratio of volumes of two cones
1 : 4 and their diameters are in the
ratio 4 : 5 respectively, then ratio in
their heights is :

- [1] 5 : 16
- [2] 25 : 64
- [3] 3 : 4
- [4] 64 : 25

\$' If $\sqrt{7 + \sqrt[3]{x}} = 4$, then value of x is :

- [1] 27
- [2] 729
- [3] 512
- [4] 216

$\frac{15}{16}$ is increased by 450% and the denominator is increased by 400%.
 Now the new fraction is $\frac{15}{16}$. The original fraction is :

- [1] $\frac{5}{6}$ [2] $\frac{7}{8}$
 [3] $\frac{9}{11}$ [4] $\frac{7}{12}$

A bag contains coins of Rs. 1, 50 paise and 25 paise in the ratio 7 : 8 : 12 respectively. If the total amount in the bag is Rs. 560, then the number of 25 paise coins in the bag is :

- [1] 120
 [2] 240
 [3] 480
 [4] 360

If numerator of a fraction is increased by 450% and the denominator is increased by 400%.
 Now the new fraction is $\frac{15}{16}$. The original fraction is :

- [1] $\frac{5}{6}$ [2] $\frac{7}{8}$
 [3] $\frac{9}{11}$ [4] $\frac{7}{12}$

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- [1] 120
 [2] 240
 [3] 480
 [4] 360

\$\$ '4 > \$

\$ % ? (@@ % 5

[1] 92 @\$
AB * 2 % #

[2] C " >A *
* % * ' \$ % #

[3] C " >A * 2
' %2 % #

[4] 92 @\$ D
* 6 = * ' % #

___ (% \$ ' '+ 3 ' (5 ' '
% # (% \$: E0 F
' ' % +
' ' %

[1] 19/66 [2] 29/66

[3] 1/6 [4] 17/66

\$\$ Which of the following statement is correct about types of tests ?

[1] Essay type tests are based on whole curriculum.

[2] Objective type tests are indefinite and unlimited.

[3] Objective type tests are more reliable and valid.

[4] Essay type tests can not assess the thought expression.

___ A bag contains 4 blue, 3 black and 5 yellow balls. At random two balls are drawn from the bag. The probability that both drawn balls are of same colour is :

[1] 19/66 [2] 29/66

[3] 1/6 [4] 17/66

_____ ' G ,-' ' \$ 1 ' &) $\frac{3p}{2}$
 , ' \$ \$

- [1] 30 \$ 1
- [2] 45 \$ 1
- [3] 60 \$ 1
- [4] 20 \$ 1

_____ H (' * ' 7 *
 I * 2 3 ' 7
 " "

%#) (C \$ \$
 % ? 4 J "*" % 5

- [1] I @\$
- [2] * 2
- [3] I
- [4] @\$

_____ The time taken by the minute hand of a watch to describe an angle of $\frac{3p}{2}$ radian, is :

- [1] 30 minutes
- [2] 45 minutes
- [3] 60 minutes
- [4] 20 minutes

_____ A student will use his/her Mathematical operations' knowledge to calculate the total amount to be paid to a vegetable seller. Which of the following teaching objective is used in this situation ?

- [1] Knowledge
- [2] Understanding
- [3] Application
- [4] Creativity

\$

_____ , \$ % ?
% 5

[1] 1'

[2] *C >1

[3] 6 C(

[4]

_____ % 6 " ,

$$(x^2 - 6xy + 9y^2) - 16$$

[1] (x - 4) (x + 4)

[2] (x - y - 4) (x - y + 4)

[3] (x - 3y + 4) (x - 3y - 4)

[4] (x + 3y - 4) (x + 3y + 4)

|

_____ Which of the following does not depict the knowledge of mathematics ?

[1] Exactness

[2] Ambiguous

[3] Systematic

[4] Logical

_____ % Factors of the following expression will be :

$$(x^2 - 6xy + 9y^2) - 16$$

[1] (x - 4) (x + 4)

[2] (x - y - 4) (x - y + 4)

[3] (x - 3y + 4) (x - 3y - 4)

[4] (x + 3y - 4) (x + 3y + 4)

The ratio of present age of Ramesh and his daughter is 8 : 5, after 8 years ratio of their ages will be 3 : 2, then the present age of the daughter is :

- [1] 40 years
- [2] 64 years
- [3] 56 years
- [4] Insufficient data, cannot be determined

If selling price of 10 articles is equal to cost price of 6 articles, then net profit or loss is :

- [1] 40% loss
- [2] 20% loss
- [3] 10% profit
- [4] Neither profit nor loss

The ratio of present age of Ramesh and his daughter is 8 : 5, after 8 years ratio of their ages will be 3 : 2, then the present age of the daughter is :

- [1] 40 years
- [2] 64 years
- [3] 56 years
- [4] Insufficient data, cannot be determined

If selling price of 10 articles is equal to cost price of 6 articles, then net profit or loss is :

- [1] 40% loss
- [2] 20% loss
- [3] 10% profit
- [4] Neither profit nor loss

_____ G 20 \$'LG 1 ' C(
 " A' \$ H "/
 %# 30 \$'LG 1 ' C
 + 18 \$ 1 H
 "/ %# G H '
 %

- [1] 18 \$'
- [2] 12 \$'
- [3] 16 \$'
- [4] 24 \$'

_____ $\frac{986' 986' 986- 742' 742' 742}{986' 986+986' 742+742' 742}$
 \$ %

- [1] 1044
- [2] 344
- [3] 144
- [4] 244

_____ Ravi moving with constant speed of 20 km/h from his home, reaches school on time. If he moves with 30 km/h, then reaches 18 minutes before school time. Distance of school from his home is :

- [1] 18 km
- [2] 12 km
- [3] 16 km
- [4] 24 km

_____ Value of $\frac{986' 986' 986- 742' 742' 742}{986' 986+986' 742+742' 742}$ is :

- [1] 1044
- [2] 344
- [3] 144
- [4] 244

A can complete a particular task in 20 days whereas B can complete that task in 10 days. Both worked together for 4 days and then B leaves the task, then how many days will A take to complete the remaining task ?

- [1] 12 [2] 4
 [3] 6 [4] 8

If $a * b = a^2 + b^2 - ab$,
 then value of $8 * 7 - 3 * 5$ is :

- [1] 41 [2] 58
 [3] 64 [4] 38

Number of diameters in a circle can be :

- [1] 1 [2] 2
 [3] 4 [4] * 9

A can complete a particular task in 20 days whereas B can complete that task in 10 days. Both worked together for 4 days and then B leaves the task, then how many days will A take to complete the remaining task ?

- [1] 12 days [2] 4 days
 [3] 6 days [4] 8 days

If $a * b = a^2 + b^2 - ab$, then value of $8 * 7 - 3 * 5$ is :

- [1] 41 [2] 58
 [3] 64 [4] 38

Number of diameters in a circle can be :

- [1] 1 [2] 2
 [3] 4 [4] Infinite

_____ \$ % ? ' \$
' % 5

[1] $15/4$

[2] $10/3$

[3] $\sqrt{2}$

[4] $21/4$

_____ \$ \$ ' 12
%+ 4% ' M- ' %+ 2

[1] 12,92,970

[2] 12,97,920

[3] 12,02,990

[4] 12,20,990

_____ Which of the following is not a rational number ?

[1] $15/4$

[2] $10/3$

[3] $\sqrt{2}$

[4] $21/4$

_____ Find the population of a city after 2 years which is at present 12 lakhs, if the rate of increase is 4% :

[1] 12,92,970

[2] 12,97,920

[3] 12,02,990

[4] 12,20,990

%

% ' 8/) 15 \$'1 %)
8 ' 2 "*" %+
& \$ (60° %#
') %

- [1] $30\sqrt{3}$ \$'1
- [2] $20\sqrt{3}$ \$'1
- [3] $10\sqrt{3}$ \$'1
- [4] $30\sqrt{3}$ \$'1

& ' 2 \$ 3 2
> 2 3 600 < * %
7 : ; 3 612 < %+ 3
> %

- [1] 3%
- [2] 6%
- [3] 4%
- [4] 8%

% A wire is tied to the top of a pole whose height is 15 meter and the wire makes an angle of 60° with the ground. The length of the wire is :

- [1] 30 meter
- [2] $20\sqrt{3}$ meter
- [3] $10\sqrt{3}$ meter
- [4] $30\sqrt{3}$ meter

& If for a certain amount and same interest rate the simple interest is Rs. 600 and compound interest is Rs. 612 of two years, then annual rate of interest is :

- [1] 3%
- [2] 6%
- [3] 4%
- [4] 8%

&

___ K " ' *9
%

[1] 120° [2] 105°

[3] 72° [4] 90°

___ $x^3+kx+12$, $(x+3)$ &
%+ k \$ %

[1] 5 [2] 4

[3] -5 [4] 3

___ 8 & +2007 % ? (5

[1]

[2] "2

[3] : C

[4] "7

___ Sum of the interior angles of a regular heptagon is :

[1] 120° [2] 105°

[3] 72° [4] 90°

___ If $x^3+kx+12$ is completely divisible by $(x+3)$, then value of k is :

[1] 5 [2] 4

[3] -5 [4] 3

___ Which was the day on 8 June, 2007 ?

[1] Saturday

[2] Wednesday

[3] Thursday

[4] Friday

_____ \$ 1 \$ 2 * % " 7\$
 74 * %29 % + 1 ' \$ 2 %

- [1] 49
- [2] 59
- [3] 62
- [4] 63

_____ \$ " " 4 . + '
 \$ 9 " / 7\$ 22 \$' * %27
 \$' % (\$ 9 " * \$2
 10 \$' + %

- [1] 152 \$'
- [2] 245 \$'
- [3] 490 \$'
- [4] 560 \$'

_____ \$ If mean and mode of a distribution are 74 and 29 respectively, then median of the distribution is :

- [1] 49
- [2] 59
- [3] 62
- [4] 63

_____ The area of a trapezium, whose parallel sides are 22 cm and 27 cm respectively and the distance between parallel sides is 10 cm, is :

- [1] 152 sq. cm
- [2] 245 sq. cm
- [3] 490 sq. cm
- [4] 560 sq. cm

! "

<p>___ # \$ % & ' () \$*) * + , + - [1] % : / * , 0 + + . " [2] + 0 + + . " [3] % : / * , 0 + + . " [4] 1 0 +</p>	<p>___ Disposable plastic plates and glasses should not be used because : [1] They are made of non-biodegradable materials. [2] They are made of materials with light weight. [3] They are made of biodegradable materials. [4] They are made of toxic materials.</p>
<p>___ 2 ! + - 3 4 + . 5 (i) 6 0 + . 2 % 3) 3 8 3 % 0 9 " (ii) 6 0 + . ! : , % ; 3 8 3 % . ;) \$* = < 3 2 " (iii) 6 0 + . , 1 : , \$ + " (iv) 6 0 + . 2 !) + ! 3 7 + " , 7* #</p>	<p>___ What do you mean by balanced diet ? (i) It means choosing a wide variety of food and drinks from all food groups. (ii) It means eating certain things in small amounts such as saturated fat, cholesterol, simple sugar etc. (iii) It means to take all nutrients which are needed as per the required level. (iv) It means long time dieting to attain balance.</p> <p>Choose the correct answer using the codes given below :</p>
<p>[1] (i) (ii) [2] (i), (ii) (iii) [3] (ii) (iii) [4] (i), (ii), (iii) (iv)</p>	<p>[1] (i) and (ii) [2] (i), (ii) and (iii) [3] (ii) and (iii) [4] (i), (ii), (iii) and (iv)</p>

Choose the right group from the following which has fossil fuel :

[1] Wind, tide and sun
 [2] Wind, tide and coal
 [3] Petroleum, wood and sun
 [4] Wind, CNG and sun

Radiation with maximum penetration power is :

[1] Infrared radiation
 [2] g-rays
 [3] Ultraviolet radiation
 [4] X-rays

Which one of the following is an artificial ecosystem ?

[1] Forest [2] Lake
 [3] Aquarium [4] Pond

When air is blown from mouth into a test tube containing lime water, the lime water turns milky. The milkiness is indicator of the presence of which gas ?

[1] Nitrogen
 [2] Oxygen
 [3] Water vapour
 [4] Carbon dioxide

Which one of the following is not a fossil fuel ?

[1] Compressed Natural Gas (CNG)
 [2] Liquid Hydrogen (LH)
 [3] Poly Ethylene Terthalate (PET)
 [4] Liquefied Petroleum Gas (LPG)

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 [4] Liquefied Petroleum Gas (LPG)

\$

_____ % '3 3 !%
 % +.< 3 4! &3!#?
 +.
 [1] % 3! , [2]
 [3] . [4] ,

_____ \$ E* E .
 B ! +. 5
 [1] \$0 ,
 [2] % ,
 [3]
 [4] 3F\$0

_____ B , H 3 . C 3+ G,
 \$0 +. 5
 [1] 7 [2] B , 3
 [3] l, [4] =\$*>

_____ = 3C3 .J 3
 . = 3C3 !: % , 6 +.

= 3l = 3ll
 (a) -% 2# (i) 20 - %, !
 K 3
 (b) # # % (ii)
 (c) !6 (iii) ,
 (d) = * (iv) *,

.J 3 , %
 #, 3 +.
 [1] (a)-iii, (b)-iv, (c)-ii, (d)-i
 [2] (a)-i, (b)-iii, (c)-ii, (d)-iv
 [3] (a)-iii, (b)-ii, (c)-iv, (d)-i
 [4] (a)-iii, (b)-iv, (c)-i, (d)-ii

_____ When white light passes through a prism the colour which bends the least is :
 [1] Indigo [2] Red
 [3] Violet [4] Orange

_____ \$ Spiny leaves are the characteristics of which type of plants ?
 [1] Terrestrial
 [2] Aquatic
 [3] Epiphytic
 [4] Xerophytic

_____ Which of the following continent lies only in Southern Hemisphere ?
 [1] Europe [2] South America
 [3] Africa [4] Australia

_____ In Column-I, names of scientists are given and in Column-II, some discoveries are given :

Column-I	Column-II
(a) Alexander Fleming	(i) Anthrax Bacterium
(b) Edward Jenner	(ii) Fermentation
(c) Louis Pasteur	(iii) Penicillin
(d) Robert Koch	(iv) Smallpox Vaccine

The correct match of the names of scientists with their discoveries is :
 [1] (a)-iii, (b)-iv, (c)-ii, (d)-i
 [2] (a)-i, (b)-iii, (c)-ii, (d)-iv
 [3] (a)-iii, (b)-ii, (c)-iv, (d)-i
 [4] (a)-iii, (b)-iv, (c)-i, (d)-ii

_____ 3 . C %, 1* L M; / * ~~++~~. 5

[1] / < < #? <

[2]) . -* < 3 < 3: ,< *#N#

[3] / < 3; < / < N

[4] 3 O < E < / < *#N#

_____ % % 3 . C +. 5

[1] #K0 ,

[2] **

[3] + * 6 *

[4] E ,

! _____ , 0 + , + , %

(i) + . 3 # 7 #? + +."

(ii) 6 P +."

(iii) 6 #? + * 6* +."

[1] ! &3 ,(

[2] & .* (

[3] ;+\$ &%7 * (

[4] 3 &3 (

_____ Which group of organisms is not the constituent of a particular food chain ?

[1] Grass, rabbit, wolf, lion

[2] Plankton, man, fish, grasshopper

[3] Grass, antelope, tiger, vulture

[4] Frog, snake, eagle, grass, grasshopper

_____ Which of the following is a water borne disease ?

[1] Diphtheria

[2] Tetanus

[3] Hepatitis

[4] Cough

! _____ Based on the following three facts identify the planet :

(i) It is the second largest planet of the solar system.

(ii) It has ice ring around it.

(iii) Its largest satellite is Titan.

[1] Mercury

[2] Saturn

[3] Jupiter

[4] Mars

Match the following nutrients (Column-I) with their main sources (Column-II) and find out the correct answer using the codes given below :

Column-I (Nutrients)	Column-II (Sources)
(a) Carbohydrate	(i) Green leafy vegetables
(b) Calcium	(ii) Pulses
(c) Protein	(iii) Milk
(d) Iron	(iv) Wheat

Codes :

- [1] (a)-iv, (b)-iii, (c)-ii, (d)-i
 [2] (a)-i, (b)-iii, (c)-ii, (d)-iv
 [3] (a)-ii, (b)-iii, (c)-i, (d)-iv
 [4] (a)-iv, (b)-iii, (c)-i, (d)-ii

Match the various layers of atmosphere with their approximate distance and choose the correct code given below :

(a) Troposphere	(i) 20 to 60 km
(b) Stratosphere	(ii) 60 to 120 km
(c) Mesosphere	(iii) 20 km from earth surface
(d) Thermosphere	(iv) 120 to 600 km

Codes :

- [1] (a)-iii, (b)-ii, (c)-i, (d)-iv
 [2] (a)-iii, (b)-i, (c)-ii, (d)-iv
 [3] (a)-iv, (b)-i, (c)-ii, (d)-iii
 [4] (a)-i, (b)-ii, (c)-iii, (d)-iv

Match the following nutrients (Column-I) with their main sources (Column-II) and find out the correct answer using the codes given below :

Column-I (Nutrients)	Column-II (Sources)
(a) Carbohydrate	(i) Green leafy vegetables
(b) Calcium	(ii) Pulses
(c) Protein	(iii) Milk
(d) Iron	(iv) Wheat

Codes :

- [1] (a)-iv, (b)-iii, (c)-ii, (d)-i
 [2] (a)-i, (b)-iii, (c)-ii, (d)-iv
 [3] (a)-ii, (b)-iii, (c)-i, (d)-iv
 [4] (a)-iv, (b)-iii, (c)-i, (d)-ii

Match the various layers of atmosphere with their approximate distance and choose the correct code given below :

(a) Troposphere	(i) 20 to 60 km
(b) Stratosphere	(ii) 60 to 120 km
(c) Mesosphere	(iii) 20 km from earth surface
(d) Thermosphere	(iv) 120 to 600 km

Codes :

- [1] (a)-iii, (b)-ii, (c)-i, (d)-iv
 [2] (a)-iii, (b)-i, (c)-ii, (d)-iv
 [3] (a)-iv, (b)-i, (c)-ii, (d)-iii
 [4] (a)-i, (b)-ii, (c)-iii, (d)-iv

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- (c) 32 , #? (iii) 3 #!<
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- (d) 2 , %? (iv) 3

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- [1] (a)-iv, (b)-iii, (c)-i, (d)-ii
- [2] (a)-iv, (b)-i, (c)-ii, (d)-iii
- [3] (a)-iii, (b)-iv, (c)-ii, (d)-i
- [4] (a)-iii, (b)-ii, (c)-iv, (d)-i

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- [2] / , 3 1* 3 3, + % , "
- [3] / / % "
- [4] / , 3 1* 3 3, + , 0 .
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Match the Biosphere reserves given in Column-I with the geographical location in Column-II and choose the correct answer using the codes given below :

Column-I

Column-II

- (a) Nilgiri Reserve (i) Uttarakhand
- (b) Sunderban Reserve (ii) 20 islands near coastal area of Tamil Nadu
- (c) Gulf of Mannar (iii) Area of Tamil Nadu, Karnataka and Kerala
- (d) Nanda Devi Reserve (iv) West Bengal

Codes :

- [1] (a)-iv, (b)-iii, (c)-i, (d)-ii
- [2] (a)-iv, (b)-i, (c)-ii, (d)-iii
- [3] (a)-iii, (b)-iv, (c)-ii, (d)-i
- [4] (a)-iii, (b)-ii, (c)-iv, (d)-i

What will happen if Antelope is missing in the food chain given below ?

Grass® Antelope® Tiger

- [1] The population of tiger increases.
- [2] The population of grass decreases.
- [3] Tiger will start eating grass.
- [4] The population of tiger decreases and the population of grass increases.

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- (a) 2 P , (i) ,
 (b) 21 3 (ii) 7 3
 (c) 5 %7 (iii) 8 ,
 (d) 2 (iv)

- [1] (a)-ii, (b)-i, (c)-iv, (d)-iii
 [2] (a)-ii, (b)-i, (c)-iii, (d)-iv
 [3] (a)-ii, (b)-iv, (c)-i, (d)-iii
 [4] (a)-i, (b)-ii, (c)-iv, (d)-iii

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 3% ,
 (d) #, , 3, (iv) -

- [1] (a)-ii, (b)-iv, (c)-iii, (d)-i
 [2] (a)-ii, (b)-iv, (c)-i, (d)-iii
 [3] (a)-iv, (b)-ii, (c)-iii, (d)-i
 [4] (a)-i, (b)-ii, (c)-iii, (d)-iv

\$ Match the date (Column-I) with days (Column-II) and choose the correct answer using the codes given below :

Column-I
 (Dates)

Column-II
 (Days)

- (a) 2 February (i) World Forestry Day
 (b) 21 March (ii) World Wetland Day
 (c) 5 June (iii) Bhopal Tragedy Day
 (d) 2 December (iv) World Environment Day

Codes :

- [1] (a)-ii, (b)-i, (c)-iv, (d)-iii
 [2] (a)-ii, (b)-i, (c)-iii, (d)-iv
 [3] (a)-ii, (b)-iv, (c)-i, (d)-iii
 [4] (a)-i, (b)-ii, (c)-iv, (d)-iii

! Find out the correct combination of following two columns :

Deficiency Disease

- (a) Lack of Vitamin A (i) Goiter
 (b) Lack of Iron (ii) Night blindness
 (c) Lack of Calcium (iii) Weakness of Bones
 (d) Lack of Iodine (iv) Anaemia

- [1] (a)-ii, (b)-iv, (c)-iii, (d)-i
 [2] (a)-ii, (b)-iv, (c)-i, (d)-iii
 [3] (a)-iv, (b)-ii, (c)-iii, (d)-i
 [4] (a)-i, (b)-ii, (c)-iii, (d)-iv

!!

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 (c) , 1 (iii) CFC - ,
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 (d) %- (iv) 6* > %
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- [1] (a)-iv, (b)-i, (c)-iii, (d)-ii
- [2] (a)-iii, (b)-i, (c)-ii, (d)-iv
- [3] (a)-iii, (b)-iv, (c)-i, (d)-ii
- [4] (a)-iii, (b)-i, (c)-iv, (d)-ii

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- [3]
- [4] P = \$F

! _____ Match the Global Environmental problems given in Column-I with their causes given in Column-II and choose the correct answer using the codes given below :

Column-I	Column-II
(a) Ozone layer depletion	(i) Emission of CO ₂ , SO ₂ and N ₂ O
(b) Green house effect	(ii) Extinction of Flora and Fauna
(c) Acid Rain	(iii) Emission of CFCs and chlorinated compounds
(d) Loss of Biodiversity	(iv) Emission of Nitrogen and Sulphur oxides

Codes :

- [1] (a)-iv, (b)-i, (c)-iii, (d)-ii
- [2] (a)-iii, (b)-i, (c)-ii, (d)-iv
- [3] (a)-iii, (b)-iv, (c)-i, (d)-ii
- [4] (a)-iii, (b)-i, (c)-iv, (d)-ii

! _____ Bone is used as a fertilizer because it contains the following plant nutrient :

- [1] Oxygen
- [2] Sodium
- [3] Carbon
- [4] Phosphorus

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 [2] (a) (d)
 [3] (a), (b) (c)
 [4] (a), (b) (d)

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! _____ Which of the following ocean lies to the West of Australia and East of Africa ?
 [1] Pacific Ocean
 [2] Indian Ocean
 [3] Atlantic Ocean
 [4] Southern Ocean

!! _____ Natural sources of air pollution are :
 (a) Volcanic eruption
 (b) Forest fire
 (c) Decay of vegetation
 (d) Automobile exhausts
 Select the most correct answer using the codes given below :
 [1] (a) and (b)
 [2] (a) and (d)
 [3] (a), (b) and (c)
 [4] (a), (b) and (d)

!# _____ Tartaric acid is not found in :
 [1] Lemon
 [2] Amla
 [3] Unripe mangoes
 [4] Grapes

!# _____ Which of the following is a biodegradable polymer ?
 [1] Polythene
 [2] Nylon-6
 [3] Polyvinyl Chloride
 [4] Cellulose

!#

! 3 # , 2 && = 3C
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- (a) B 3 # (i) %? , \$0
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 (c) 3 3 # (iii) + E A W%
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 (d) S !3 # (iv) # +,
 % 1* + +.

7*

- [1] (a)-ii, (b)-i, (c)-iii, (d)-iv
 [2] (a)-i, (b)-ii, (c)-iii, (d)-iv
 [3] (a)-ii, (b)-i, (c)-iv, (d)-iii
 [4] (a)-ii, (b)-iv, (c)-i, (d)-iii

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 [1] P 6* [2] * # P 6*
 [3] 6 [4] , & .

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 [3] #, [4]

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 [1] 3 3 # < 3 3 #
 [2] B 3 # < 3 3 #
 [3] 3 # < 3 3 #
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! Match the various layers of atmosphere (Column-I) with their characteristic (Column-II) and select the correct answer from the codes given below :

Column-I (Layers of Atmosphere) Column-II (Characteristics of Layers)

- (a) Troposphere (i) Ozone is present
 (b) Stratosphere (ii) all clouds form here
 (c) Mesosphere (iii) high energy UV and X-rays are absorbed here
 (d) Thermosphere (iv) most meteors burn in this region

Codes :

- [1] (a)-ii, (b)-i, (c)-iii, (d)-iv
 [2] (a)-i, (b)-ii, (c)-iii, (d)-iv
 [3] (a)-ii, (b)-i, (c)-iv, (d)-iii
 [4] (a)-ii, (b)-iv, (c)-i, (d)-iii

! Which of the following is the best indicator of SO₂ pollution ?

- [1] Bryophyte [2] Pteridophyte
 [3] Lichen [4] Algae

!\$ Which of the following element should be available in water for metamorphosis of tadpoles ?

- [1] Sulphur [2] Chlorine
 [3] Iodine [4] Carbon

" Name the regions of the atmosphere where oxygen and ozone play key role :

- [1] Mesosphere, Stratosphere
 [2] Troposphere, Stratosphere
 [3] Ionosphere, Mesosphere
 [4] Exosphere, Thermosphere
