प्रथम 10 मिनट में अभ्यर्थी अपनी प्रश्न-पुस्तिका के क्रमांक का मिलान ओ०एम०आर० उत्तर पत्रक के क्रमांक से अवश्य कर लें। यदि ओ० एम० आर० उत्तर पत्रक व प्रश्न-पुस्तिका के क्रमांक भिन्न हैं तो केन्द्र अधीक्षक से निवेदन करके प्रश्न-पुस्तिका बदल लें।

Level : 3
PGT : For Lecturer

Exam. – 2022
MATHEMATICS

Sub. Code No. : 918

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 : _____ **अभ्यर्थी के हस्ताक्षर :** _____
Name of Candidate **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**

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 संदेह 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

1. 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 पैन से विवरण भरें।
2. परीक्षा की अवधि **2½ घंटे** है एवं प्रश्न-पुस्तिका में **150** प्रश्न हैं। **कोई ऋणात्मक अंकन नहीं है।**
3. अपने विवरण अंकित करने एवं उत्तर पत्रक पर निशान लगाने के लिए केवल **काले बॉल प्वाइंट पैन** का प्रयोग करें। अभ्यर्थी प्रश्न-पुस्तिका का उपयोग करने एवं उत्तर पत्रक को भरने में सावधानी बरतें।
4. 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 करवाएँ।

INSTRUCTIONS FOR THE CANDIDATES

1. 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.
2. The test is of **two-and-half hours** duration and consists of **150** questions. **There is no negative marking**.
3. 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.
4. 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–3 (प्रवक्ता 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 **150**)

5. Level–3 (For Lecturer)

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. **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.)

!

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_ " # $ % & ' ( ) *' +, -. / '0 .$ - -.	_ A type of intelligence test in which the difficulty level of questions gradually increases and the time factor is secondary :
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[2] 2 # $	[2] Power Test
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[4] 3 # $	[4] Performance Test
" $ 45 6 ' 708- & 9 0 :0 ; / 0 '8-% # 3 0 # 5 # '> - 9 # # # 6 0 0 -.	" A teaching-learning strategy in which small groups of students with different level of ability use a variety of learning activities to improve their understanding of a subject :
[1] - 4 # 5 6 '	[1] Multi-sensory learning
[2] $	[2] Team teaching
[3] - # 5 6 '	[3] Co-operative learning
[4] 5 * ' 5 6 '	[4] Programmed learning
_ . 70 2 ? # $ % 7 5 ' 6 -. @	_ Spranger's classification of personality is related to which approach of personality assessment ?
[1] # $ '	[1] Trait Approach
[2] '	[2] Type Approach
[3] '8 A '	[3] Instinct Approach
[4] ' 3 $ '	[4] Psychoanalytic Approach

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Which of the following is not a symptom of good mental health of students ?
[1] Living in fantasy world
[2] Balance in life
[3] Knowledge of our potentials and limitations
[4] Free from undesirable worries

$ 'When an adolescent is unable to show anger to his parents, then he shows his anger to his younger brother.' This is an example of which type of defence mechanism ?
[1] Repression [2] Regression
[3] Projection [4] Displacement

% According to Piaget's Cognitive Development Theory, 'The basic unit of the cognitive structure that helps in the implementation of cognitive behaviour', is termed as :
[1] Reflexes [2] Basic Instincts
[3] Schema [4] Conservation

& "Emotional Intelligence may be defined as the capacity to reason with emotion in four areas – to perceive emotion, to integrate it in thought, to understand it and to manage it."
Who gave this definition of emotional intelligence ?
[1] Daniel Goleman
[2] Mayer and Peter Salovey
[3] Peter and Michael
[4] Halverson

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_ Which one of the following is not a direct method for measurement of attitude ?
[1] Interview [2] Projection
[3] Questionnaire [4] Observation

_ 'A horse can be brought near water, but cannot be forced to drink.' This statement reveals the truth of Thorndike's which law of learning ?
[1] Law of Readiness
[2] Law of Exercise
[3] Law of Effect
[4] Law of Multi Responses

' Which of the following is not a level of teaching ?
[1] Basic Level
[2] Memory Level
[3] Understanding Level
[4] Reflective Level

__ Which one of the following is not a part of Bronfenbrenner's Ecological System theory ?
[1] Micro system
[2] Macro system
[3] Minor system
[4] Meso system

" Which pair is not correct with reference to emotions and basic instincts ?

Emotion		Basic Instinct
[1] Anger	–	Repulsion
[2] Ownership	–	Collection
[3] Wonder	–	Curiosity
[4] Fear	–	Escape

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__ Which way is the most appropriate for social development of adolescents ?
[1] Discussion on socialization
[2] Essay competition on social values
[3] Organizing group activities
[4] Documentary on social relations

According to Maslow's Need Hierarchical theory, 'Esteem Needs' are which type of need ?
[1] Personal
[2] Social
[3] Intellectual
[4] Emotional

$ Which of the following task is not related to Baqer Mehdi's test of Creativity ?
[1] Unusual uses related task
[2] New relation between pairs related task
[3] Product improvement related task
[4] Ask and guess related task

% Which of the following statement is not correct with reference to individual differences ?
[1] No two persons can be exactly alike.
[2] Individual differences may belong to different areas.
[3] Individual differences affects different dimensions of development.
[4] Individual differences arises only due to heredity.

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& Who is called the father of Trait Theory for study of personality ?
[1] Allport [2] Woodworth
[3] McDougall [4] Eysenck

__ Which of the following pairs of communication skills iscorrect for receiving the information ?
[1] Listening and Writing
[2] Speaking and Reading
[3] Listening and Reading
[4] Speaking and Writing

__ According to Triarchic Theory, which of the following isnot a type of intelligence ?
[1] Analytical [2] Creative
[3] Theoretical [4] Practical

"' According to Kohlberg's theory, what level of morality is it, when morality includes self-accepted moral principles ?
[1] Pre-conventional
[2] Conventional
[3] Post-conventional
[4] None of these

" Which of the following isnot a general characteristic of adolescence period ?
[1] It is a transitional period.
[2] It is period of unrealism.
[3] It is time for search of identity.
[4] It is the threshold of puberty.

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"" Who developed the Thematic Apperception Test for personality assessment ?

[1] Murray and Morgan

[2] Bellack

[3] Eysenck

[4] Allport and Cattell

" What type of reinforcement schedule is it, when reinforcement is provided to the learner only after a certain number of responses ?

[1] Fixed ratio

[2] Variable ratio

[3] Fixed interval

[4] Variable interval

"# According to the moral development theory of Piaget, adolescence period is :

[1] Stage of moral realism

[2] Stage of morality constraint

[3] Stage of heteronomous morality

[4] Stage of autonomous morality

"$ Which of the following factors positively affects learning ?

[1] Meaningless content

[2] Lack of maturation

[3] Lack of motivation

[4] Informational feedback

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"% Rohit helps others to get praise. This is an example of :
[1] Intrinsic Motivation
[2] Extrinsic Motivation
[3] Innate Motivation
[4] None of these

"& What will be the intelligence quotient of a 15 year old boy, when his mental age is 12 ?

[1] 80 [2] 90
[3] 100 [4] 110

" As a teacher which of the following work would not be done by you to develop the creativity of the students ?
[1] Encouragement of originality
[2] Removal of fear
[3] Freedom to respond
[4] Avoidance of divergent thinking

" Development which proceeds from 'centre to the periphery', is known as :
[1] Cephalic Caudal
[2] Proximodistal
[3] Spiral
[4] Circular

' Hunger and Thirst is which type of motive ?

[1] Extrinsic [2] Acquired
[3] Intrinsic [4] Social

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___ Which of the following options express the correct meaning of the sentence given below ?

He is too cute to overlook.

[1] He is too cute and he can be overlooked.

[2] He is too cute but he can be overlooked.

[3] He is so cute that he cannot be overlooked.

[4] Although he is not cute, but he cannot be overlooked.

___ Change the narration :

Kavin said to Mr. Cowper, "Please, be kind to me."

[1] Kavin requested Mr. Cowper to be kind to him.

[2] Kavin requested Mr. Cowper to be kind to me.

[3] Kavin asked Mr. Cowper to be please kind to me.

[4] Kavin asked Mr. Cowper that he must be kind to him.

___ Fill in the blank with the correct form of verb :

You had better ……. your hands before you eat.

[1] been washing

[2] washing

[3] washed

[4] wash

___ The word 'garrulous' means :

[1] talkative [2] abusive

[3] violent [4] abundant

___ Arrange the following jumbled options in the correct order and then choose the correct option :

(i) too many (ii) spoil

(iii) the broth (iv) cooks

[1] (i), (iv), (iii), (ii)

[2] (i), (iv), (ii), (iii)

[3] (iii), (iv), (ii), (i)

[4] (iv), (ii), (i), (iii)

___ Fill in the blank with the correct option :

Let us stay here, while it ……. .

[1] is raining

[2] was raining

[3] has been raining

[4] had been raining

___ Choose the part of the sentence that is grammatically incorrect :

The thief took towards/his heels/on seeing/the Police-van arrive.

[1] The thief took towards

[2] his heels

[3] on seeing

[4] the Police-van arrive.

___ Choose the part of the sentence that is grammatically incorrect :

He has committed / a blunder / mistake / today morning.

[1] He has committed

[2] a blunder

[3] mistake

[4] today morning.

___ Fill in the blank with the correct form of verb :

Neither you nor she ……..... made the mistake.

[1] have [2] has

[3] had [4] did

___ Fill in the blank with correct 'Modal Auxiliary' :

Passengers ……. not walk across the railway line.

(Prohibition)

[1] should [2] can

[3] need [4] must

___ Choose the correct passive of the given sentence :

Did he kill a lion ?

[1] Did a lion killed by him ?

[2] Was a lion killed by you ?

[3] Was a lion killed by him ?

[4] Had a lion been killed by you ?

___ Fill in the blank with the correct option :

Mr. Sudhir Soni is ……. R. A. S. Officer.

[1] an [2] a

[3] the [4] ´

___ Fill in the blank with the correct option that completes the idiom :

A rolling stone ……. .

[1] carries rough winds

[2] kills no one

[3] gathers no sauce

[4] gathers no moss

___ Fill in the blank with the correct option :

When Monisha reached the bus stand, the bus ……. .

[1] was already left

[2] had already left

[3] already left

[4] has been already left

___ Which of the following sentences is the correct option to express present perfect continuous tense ?

[1] Mr. Mehta has been waking for 2 O'clock in the morning.

[2] Mr. Mehta has been waking since 2 O'clock in the morning.

[3] Mr. Mehta has been waked since 2 O'clock in the morning.

[4] Mr. Mehta has been waking from 2 O'clock in the morning.

! " #$# % &

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

'# + X Y ,
+ % - %.)/0 01 - !%2
X - % !45 %0- 0)/0
01 6

[1] #$ %

[2] 7

[3] !+

[4] ! '

'(# - ' +%- % .
3 8 9 :& !4-5 8 9
% - 01* % - ' 3 -
!" 8 9 01 :
' 01

[1] 10 - !" 8 9

[2] 12 - !" 8 9

[3] 13 - !" 8 9

[4] 15 - !" 8 9

'# 10.5 - ;)
!8 %3.5 - ; 3 -
</' 3 3 2 9) =
: 01*) % 3 !" % &
- 0 - 6

[1] 112 [2] 126

[3] 132 [4] 138

'# X and Y are facing each other at sunrise. The shadow of Y is falling towards right of X, then Y is facing in which direction ?

[1] North

[2] South

[3] East

[4] West

'(# A boat covers a certain distance downstream in 3 hours, while it comes back in 4.5 hours. If the speed of the stream be 3 kmph, then the speed of the boat in still water is :

[1] 10 kmph

[2] 12 kmph

[3] 13 kmph

[4] 15 kmph

'# A metallic sphere of radius 10.5 cm is melted and then recast into small cones each of radius 3.5 cm and height 3 cm, then the number of cones thus formed is :

[1] 112 [2] 126

[3] 132 [4] 138

)

'# 3 % > '? @ A E
% !% > '? @ A
: 45 % $3\frac{3}{8}$) 0 : B : -
> % 01

[1] $16\frac{2}{3}\%$

[2] $33\frac{1}{3}\%$

[3] 33%

[4] 50%

')# 1865 660 ":- &
0 1 1305 0 - & 01 !
120 CD 3 - >
& 01 >
& 0 1 6

[1] 220

[2] 440

[3] 120

[4] 1085

"# ' - - 20% - - 0 :
!% " 0 800 E! 12.5 "
' ; %- 01 ' -
+ - !" " - 01 6

[1] 12 E! [2] 14 E!

[3] 15 E! [4] 16 E!

'*# : . :
. 12) > . 5
) 01* # >36 0 ;
01

[1] 2726 [2] 2736

[3] 2796 [4] 2826

'# If the amount is $3\frac{3}{8}$ times the sum after 3 years at compound interest compounded annually, then the rate of interest per annum is :

[1] $16\frac{2}{3}\%$

[2] $33\frac{1}{3}\%$

[3] 33%

[4] 50%

')# Out of 1865 people, 660 can speak English and 1305 can speak Hindi, but 120 persons cannot speak either language, then how many persons can speak both languages ?

[1] 220

[2] 440

[3] 120

[4] 1085

"# A reduction of 20% in the price of rice enables a customer to purchase 12.5 kg more for Rs. 800. The original price of rice per kg is :

[1] Rs. 12 [2] Rs. 14

[3] Rs. 15 [4] Rs. 16

'*# In a division sum, the divisor is 12 times the quotient and 5 times the remainder. If the remainder is 36, then the dividend is :

[1] 2726 [2] 2736

[3] 2796 [4] 2826

# # #

'# F 7 - ! - :

Z1A, X2D, V6G, T21J, R88M, P445P, ?

[1] N2676T

[2] T2670N

[3] N2676S

[4] M2670S

'# - 5, 9, 13 :
% !% ? 2, 6 10 > &'
01* - & 2 9- 01

[1] 602 [2] 592

[3] 572 [4] 582

*+# ' +9 > "PARTICLE"
"USBQFMDJ" "GENERATE"
"FOFHFUBS" : 01 3
+9 > "DOCUMENT"
:

[1] VDEPUOSF

[2] VDPENFUQ

[3] VDPEUOFN

[4] VDPEUOSF

*# - P, Q R G % 9518
% 01* R, Q)) -
Q, P)) - ' 01
P G % 91 %
6

[1] 22 8 9

[2] 25 8 9

[3] 30 8 9

[4] 35 8 9

'# Find the next term of the following series :

Z1A, X2D, V6G, T21J, R88M, P445P, ?

[1] N2676T

[2] T2670N

[3] N2676S

[4] M2670S

'# A number when divided by 5, 9, 13 leaves remainder 2, 6 and 10 respectively. The least such number is :

[1] 602 [2] 592

[3] 572 [4] 582

*+# In a certain code language "PARTICLE" is written as "USBQFMDJ" and "GENERATE" is written as "FOFHFUBS", then in same code language "DOCUMENT" will be written as :

[1] VDEPUOSF

[2] VDPENFUQ

[3] VDPEUOFN

[4] VDPEUOSF

*# A tank is filled in 5 hours by three pipes P, Q and R. The pipe R is twice as fast as Q and Q is twice as fast as P. How much time will pipe P alone take to fill the tank ?

[1] 22 hrs

[2] 25 hrs

[3] 30 hrs

[4] 35 hrs

*

*(# $= \frac{\sqrt{3}+1}{\sqrt{3}-1}$ $y = \frac{\sqrt{3}-1}{\sqrt{3}+1}$, $(^2 + ^2)$ 01

[1] 14 [2] 12

[3] 13 [4] 16

*(# If $= \frac{\sqrt{3}+1}{\sqrt{3}-1}$ and $y = \frac{\sqrt{3}-1}{\sqrt{3}+1}$, then the value of $(^2 + ^2)$ is :

[1] 14 [2] 12

[3] 13 [4] 16

*# 45 - ! D A & - % 10 H !% B - % 14 H !% 01 ! - H / !% & - 01 A & - % 24 H !% 0 : - 01 ! D 45 - 01 6

[1] 31
[2] 33
[3] 37
[4] 39

*# In a row of girls, A is 10th from the left and B is 14th from the right. If they interchange their positions, A becomes 24th from the left. How many girls are there in a row ?

[1] 31
[2] 33
[3] 37
[4] 39

*#) % H) 15% !% & ' 01 % # #18 E! & ' 0 # 18% 0 : *# H) ? +(IEJ K 01

[1] 360
[2] 540
[3] 600
[4] 640

*# A shopkeeper sells an article at 15% gain. Had he sold it for Rs. 18 more, he would have gained 18%. The cost price (in Rs.) of the article is :

[1] 360
[2] 540
[3] 600
[4] 640

*)# H& - : 9000 01 !)E - : @ A %5% 1% 0 - @ A %8% 0 > : 9600 0 !)E> - 01

[1] 3000
[2] 4000
[3] 5000
[4] 5600

*)# The population of a town is 9000. If the males increase by 5% and females by 8%, the population would be 9600 in a year. The number of males is :

[1] 3000
[2] 4000
[3] 5000
[4] 5600

# # #

*'# D, C E & 01A, E
& 0- 01, A & 01D, B
& 0- 01 3
& & 01 6
[1] A [2] B
[3] C [4] D

**# 45 - . 9 " . - % :
% 0)X 0 LL 0 % :-
3 1 !) - 45 - 01MM
X !" % & 01 6
[1] ! [2] 3
[3] &0 [4]

*'# D is taller than C and E. A is not as tall as E. C is taller than A. D is not as tall as B. Who is the tallest among them ?
[1] A [2] B
[3] C [4] D

**# Pointing to a girl in photograph, X said "She is the daughter of my grandfather's only son". How is the