MATRIX OLYMPIAD

CSR Initiative of Matrix Education, Sikar to motivate and reward young talent.

☑ **Total Questions : 60**   ☑ **Maximum Marks : 240**   ☑ **Duration : 2 Hrs.**

PAPER PATTERN

Part	(I) Physics	(II) Chemistry	(III) Biology	(IV) Mathematics	(V) Logical Reasoning & IQ
Number of Questions	7	6	7	30	10

Marking Scheme: +4 For Each Correct Answer (There is no negative for wrong answer)

Instructions :

1. This Booklet is your **Question Paper.** DO NOT **break seal** of Booklet until the invigilator instructs to do so.
2. The Answer Sheet is provided to you separately which is a machine readable Optical Response Sheet (ORS). You have to mark your answer in the ORS by darkening bubble, as per your answer choice , by using **Black /Blue** ball point pen only.
3. If you are found involved in **cheating** or disturbing others then your ORS will be cancelled.
4. Do not **damage** the ORS sheet in any manner. If ORS is damaged or not completed properly, your results will not be prepared.
5. If you have any **confusion** in filling-up ORS sheet, please **contact** your invigilator. Incomplete ORS will be not be evaluated.
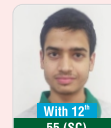6. You can take the question paper home once the ORS is submitted.

Answer Key and Video
Solutions Kindly Scan
QR Code and subscribe
Matrix youtube channel

MATRIX: Where producing outstanding results is a habit!

JEE ADVANCED TOPPERS

Name	AIR
Mayank Soni (With XII)	AIR 26 (Gen.)
Priyanshu Meel (With XII)	AIR 154 (Gen.)
Nagendra Singh (With XII)	AIR 220 (Gen.)
Mohit Modi (With XII)	AIR 296 (Gen.)
Aman Nehra (With XII)	AIR 356 (Gen.)
Himanshu Rewar (With XII)	AIR 358 (Gen.)
Aarish (With XII)	AIR 415 (Gen.)
Uttam Paharia	AIR 421 (Gen.)

JEE MAIN TOPPERS

Name	%tile	AIR
Mayank Soni (With XII)	100 %tile	AIR 34 (Gen.)
Nagendra Singh (With 12th, 15 (OBC))	99.99 %tile	AIR 123 (Gen.)
Shailesh Saini (With 12th, 55 (SC))	99.97 %tile	AIR 354 (Gen.)
Mohit Modi (With XII)	99.98 %tile	AIR 213 (Gen.)
Aman Nehra (With XII)	99.97 %tile	AIR 393 (Gen.)
Satyam Sharma (With 12th)	99.97 %tile	AIR 426 (Gen.)
Anupam Jakhar (With XII)	99.96 %tile	AIR 478 (Gen.)
Uttam Paharia	99.95 %tile	AIR 509 (Gen.)

NEET (UG) Toppers

Name	Marks	AIR
Rekha Nitharwal	680	1665
Narendra Farroda	670	2905
Mahendra Yadav	667	3263
Ankit Kumar Chahar	666	3378
Deepika Soni	665	3545
Lokesh Goyal	665	3621
Mohit Haritwal	665	3661

KVPY TOPPERS

Name	AIR
Manas Jajodia	AIR 6 (Gen.) Stream- SB
Ishu	AIR 8 (Gen.) Stream- SB
Lakshaya	AIR 13 (Gen.) Stream- SB
Akshay Choudhary	AIR 17 (Gen.) Stream- SB
Chirag Indoria	AIR 37 (Gen.) Stream- SB

STSE TOPPERS

Name	Class	Rank
Aman Nehra	Class 12th	1st State Rank
Aman Nehra	Class 12th	2nd State Rank
Dinesh Kumar	Class 12th	2nd State Rank
Pranshu Bharia	Class 10th	2nd State Rank
Shrishti	Class 10th	2nd State Rank
Rohit Yadav	Class 10th	2nd State Rank
Dev Kumar	Class 10th	3rd State Rank
Mohd. Farhan	Class 10th	3rd State Rank

OUR BOARD TOPPERS

Name	Class	Percentage
Pinakin Choudhary	Class 10th	99.20%
Aradhya Raina	Class 10th	98.80%
Laxmi	Class 10th	98.20%
Vishal Choudhary	Class 10th	98.00%
Preksha Singh	Class 10th	97.80%
Piyush Sagatani	Class 12th	97.80%
Khushee Binwal	Class 12th	97.60%
Reena	Class 12th	97.60%
Siddhant Lalpuria	Class 12th	97.60%
Rohit Yadav	Class 12th	97.40%

NTSE TOPPERS

Name	Rank
Aditya Jhajhria	1st State Rank
Nayan Godara	1st State Rank
Aman Nehra	1st State Rank
Aaditya Pratap	2nd State Rank
Mayank Soni	2nd State Rank
Aditya Bijarniya	4th State Rank
Pragati	5th State Rank

Authenticity of result, promise of Matrix!
*cumulative result so far

यह परिणाम मैट्रिक्स के केवल Yearlong classroom Program Students का ही है

Remarkable result growth in both JEE Main & Advanced on a consistent basis

JEE Main Qualified students from Matrix

Year	Value
2015	176
2016	453
2017	800
2018	832
2019	892
2020	1000
2021*	930
2022	1120
2023	1732

JEE Advanced Qualified students from Matrix

Year	Value
2015	51
2016	126
2017	295
2018	362
2019	402
2020	446
2021*	410
2022	434
2023	523
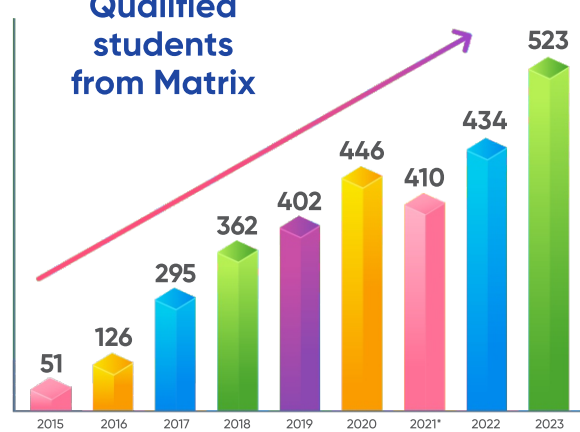
*due to covid

Note : All results are from Matrix year long classroom program at Sikar only.

"Authenticity of result, promise of Matrix"

HIGHLIGHTS at MATRIX

Total students qualified in JEE Main

6700+ students have been qualified in JEE main from matrix till date.

2500+ students have qualified JEE Advanced till date – Highest in Sikar

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2023 RESULT

Top score in JEE Main 2023 Mayank Soni

Rank- **34**

Top scorer JEE Advanced 2023 Mayank Soni

AIR- **26** (Gen)

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200 Doctors in very 1st year of **Matrix NEET Division**

All India Rank **6** in **KVPY 2021: MANAS JAJODIA**

55+ total selections in KVPY over last 4 years **45+**

More than **40,000** students have been beneficiary of **Matrix system till date**

Matrix has the largest pre-foundation career program in Sikar with highest number of enrolment and top results in all sort of competitive examinations.

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3500+ selection in NIT/IIITs and other or other Prestigious Universities Highest in Sikar

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Matrix System has produced one of the highest **NDA** selections in Sikar at a very early stage. **70** selections in NDA 2023 April attempt!

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Highest quality of management and student care for each student

MATRIX OLYMPIAD

77 Jammu & Kashmir
181 Punjab
24 Chandigarh
118 Himachal Pradesh
200 Uttarakhand
193 Haryana
319 Delhi
181 Rajasthan
441 Uttar Pradesh
52 Bihar
7 Sikkim
13 Arunachal Pradesh
85 Assam
4 Nagaland
3 Meghalaya
15 Manipur
39 Tripura
8 Mizoram
127 Gujarat
64 Madhya Pradesh
30 Chhattisgarh
79 Jharkhand
240 West Bengal
49 Orrisa
291 Maharashtra
65 Telangana
27 GOA
70 Karnataka
16 Andhra Pradesh
33 Kerala
122 Tamil Nadu

3302

Matrixians Studied at
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across
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PART I : PHYSICS

This section contains 07 Multiple Choice Questions (Q : 01 to Q : 07). Each question has four choices (A), (B), (C) and (D) out of which ONLY ONE is correct.

1. A force of 16 N is distributed uniformly over a surface of a cube of side 8 cm. The pressure applied by this force on the surface is :
   (A) 3500 Pa
   (B) 2500 Pa
   (C) 4500 Pa
   (D) 5500 Pa

2. Rohan starts running towards north direction during a race competition. Then the direction of friction force applied by ground on his feets will be -
   (A) North direction
   (B) South direction
   (C) East direction
   (D) West direction

3. The force applied on an object cannot -
   (A) Change the mass of an object
   (B) Change the shape of an object
   (C) Change the position of an object
   (D) Change the direction of movement of an object

4. A 5 kg mass block resting on a horizontal surface. The coefficient of friction between surface and block is 0.2. Then value of friction force will be :
   (A) 10 N
   (B) 15 N
   (C) 20 N
   (D) 0 N

5. Which of the following statement/s is/are **True(T)** or **False(F)** ?
   (i) Friction is always undesirable.
   (ii) Friction depends on normal reaction between two contact surfaces.
   (iii) Without friction we can walk very easily.
   Code :

	(i)	(ii)	(iii)
(A)	T	F	F
(B)	T	T	T
(C)	F	F	T
(D)	F	T	F

Space for rough work

6. Match **Column – I** with **Column – II** and select the correct answer using the codes given below.

Column – I	Column – II
P. Manometer	**1.** Atomospheric pressure
Q. Spring balance	**2.** A device used for measuring liquid pressure
R. Barometer	**3.** Device used to measuring weight

Code :

	P	Q	R
(A)	1	2	3
(B)	3	2	1
(C)	2	1	3
(D)	2	3	1

7. Pressure is defined as the force acting per unit area. Two rods (rod A and B) have the same weight and length but different thicknesses. Rod B is thinner while Rod A is thicker. They are held vertically on the surface of the soft sand. Which of the following statements is/are TRUE about their position ?
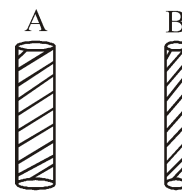
1. Rod B will sink more because it has a small contact area with the surface.

2. Rod A and Rod B will sink equally because pressure do not depend on the contact.

3. Rod A will sink less because it has a bigger area of contact with the surface.

(A) 1, 2, & 3

(B) Only 2

(C) Only 1

(D) 1 and 3

Space for rough work

PART II : CHEMISTRY

This section contains 06 Multiple Choice Questions (Q : 08 to Q : 13). Each question has four choices (A), (B), (C) and (D) out of which ONLY ONE is correct.

8. Which is the strongest fibre amongst the following ?

(A) Rayon

(B) Nylon

(C) Acrylic

(D) Cotton

9. The additive use of PVC (a flexible plastic) is called :

(A) Filler

(B) Stablizer

(C) Antioxidant

(D) Plasticizer

10. Which of the following is not a property of a non metal ?

(A) Forms anions

(B) Forms acidic oxides

(C) High tensile strength

(D) Low density

11. Which of the following statement/s is/are **True(T)** or **False(F)** ?

(i) Coal is made up of carbon which is malleable in nature.

(ii) Nylon is also known as artificial silk.

(iii) Synthetic fibre do not generate electric charge.

Code :

	(i)	*(ii)*	*(iii)*
(A)	T	F	F
(B)	T	T	T
(C)	F	F	T
(D)	F	F	F

**12.** Match **Column – I** with **Column – II** and select the correct answer using the codes given below.

Column – I	Column – II
P. $CuSO_4.5H_2O$	**1.** Light green
Q. $FeSO_4.7H_2O$	**2.** Colourless
R. $ZnSO_4.7H_2O$	**3.** Blue

Code :

	P	*Q*	*R*
(A)	2	3	1
(B)	3	2	1
(C)	3	1	2
(D)	1	2	3

***** B08151023 *****

Space for rough work

B08151023

13. Rahul performs an experiment. He cuts out equal sized squares from each of the three fabrics - nylon, knitted wool and cotton and weighs them. He then places each fabric square into a beaker containing 500 mL of water.

Water — Nylon   Knitted wool   Cotton
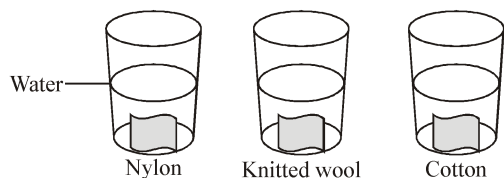
After 10 minutes Rahul removes the fabric squares from the water, weighs them and records his observations in a tabular form. Which of the observations made by him is incorrect?

Fabric	Mass before soaking (g)	Mass after soaking (g)
Nylon	30	43
Knitted wool	40	50
Cotton	35	70

(A) Nylon
(B) Knitted wool
(C) Cotton
(D) None of these

Space for rough work

PART III : BIOLOGY

*This section contains **07 Multiple Choice Questions (Q : 14 to Q : 20)**. Each question has four choices (A), (B), (C) and (D) out of which **ONLY ONE** is correct.*

14. Which preservatives, prevent the spoilage of food leaves for a long time from microbial infection we used in kitchen ?

(A) Vinegar

(B) Common salt

(C) Oil

(D) All of the above

15. The instrument seed drill is used to :

(A) Sowing seed

(B) Remove the weeds

(C) Remove the pest

(D) Mix manure in the soil

16. Name the process by which amount of nitrogen remain same in the atmosphere is known as :

(A) Fermentation

(B) Carbon cycle

(C) Nitrogen cycle

(D) Photosynthesis

17. A good quality seed in agriculture means a seed with.

(A) It has higher germination power

(B) It has high yielding capacity

(C) It has higher resistant power to pests and adverse climate

(D) All of the above

***** B08151023 *****

18. Bacteria have been grouped into four different types based on their shapes. Identify the different types and select the correct statement regarding it.

(P)

(Q)

(R)

(S)
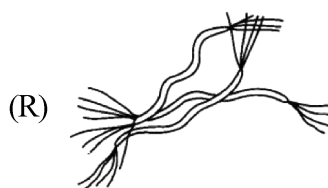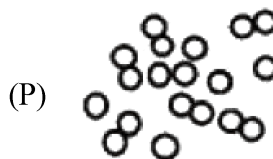
(A) Vibrio cholerae is an example of type S, which causes cholera.

(B) Mycobacterium is an example of type S, which causes leprosy.

(C) Type R bacteria are rod-shaped and are called as bacilli bacteria.

(D) Streptococcus is an example of type P bacteria that causes ringworm.

Space for rough work

19. Which of the following statement/s is/are **True(T)** or **False(F)** ?

(i) Lactobacillus is a fungus present in curd.

(ii) Louis pasteur discovered the process fermentation.

(iii) The first Antibiotic was discovered by Alexander fleming.

Code :

	(i)	*(ii)*	*(iii)*
(A)	T	F	F
(B)	T	T	T
(C)	F	F	T
(D)	F	T	T

20. Match **Column – I** with **Column – II** and select the correct answer using the codes given below.

Column – I	Column – II
P. Fishes	**1.** Green Revolution
Q. Crops	**2.** White Revolution
R. Milk	**3.** Blue Revolution

Code :

	P	*Q*	*R*
(A)	1	2	3
(B)	1	3	2
(C)	3	1	2
(D)	3	2	1

***** B08151023 *****

Space for rough work

B08151023

PART IV : MATHEMATICS

*This section contains **30 Multiple Choice Questions (Q : 21 to Q : 50)**. Each question has four choices (A), (B), (C) and (D) out of which **ONLY ONE** is correct.*

21. How many rational numbers are there in between any two given rational numbers ?

(A) Only one

(B) Only two

(C) Infinite

(D) Nothing can be said

22. Which property is used in the equation given below ?

12(x + 4) = 12x + 48

(A) Associative property of addition

(B) Commutative property of addition

(C) Distributive property

(D) Reflexive property

23. Which of the following options is true ?

(A) $\dfrac{5}{7} < \dfrac{7}{9} < \dfrac{9}{11} < \dfrac{11}{13}$

(B) $\dfrac{11}{13} < \dfrac{9}{11} < \dfrac{7}{9} < \dfrac{5}{7}$

(C) $\dfrac{5}{7} < \dfrac{11}{13} < \dfrac{7}{9} < \dfrac{9}{11}$

(D) $\dfrac{5}{7} < \dfrac{9}{11} < \dfrac{11}{13} < \dfrac{7}{9}$

24. The value of x for which the expression $3x - 4$ and $2x + 1$ becomes equal is :

(A) −3

(B) 0

(C) 5

(D) 1

25. Find the value of x :

$$\dfrac{9x+7}{2} - \left[x - \left(\dfrac{x-2}{7} \right) \right] = 36$$

(A) 9

(B) 18

(C) 5

(D) 4

26. In an examination, a student was asked to find $\dfrac{3}{14}$ of a certain number. By mistake, he found $\dfrac{3}{4}$ of that number, his answer was 150 more than the correct answer. The number is :
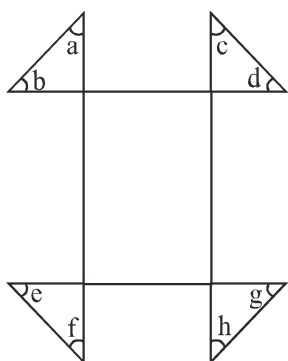
(A) 180

(B) 240

(C) 280

(D) 290

Space for rough work

27. If the sum of three consecutive natural numbers is 288, then the largest number among them is :

(A) 95

(B) 97

(C) 98

(D) 96

28. Find the sum of angles a, b, c, d, e, f, g and h.

(A) 720°

(B) 360°

(C) 540°

(D) 180°

29. If the ratio of interior angle to exterior angle of a regular polygon is 7 : 2, then the number of sides of polygon are :

(A) 8

(B) 9

(C) 10

(D) 11

***** B08151023 *****

30. If ABCD is a rhombus, then which of the following statement is correct ?

(A) AB = AD

(B) AB = DC

(C) Both (A) and (B)

(D) None of these above

31. The following pie chart represents the amount spent on different sports by a school administration in a calender year. If the money spent on football is Rs 9000 then what is the total amount spent on sports ?
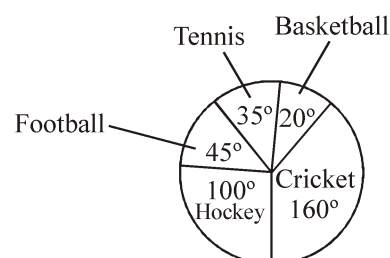
(A) Rs. 68,000

(B) Rs. 70,000

(C) Rs. 72,000

(D) Rs. 81,000

32. Which of the following cannot be the empirical probability of an event ?

(A) $\dfrac{2}{3}$

(B) $\dfrac{3}{2}$

(C) 0

(D) 1

Space for rough work

B08151023

33. Which of the following is a square number ?

(A) 1057

(B) 7928

(C) 23453

(D) 221841

34. How many natural numbers lie between 9^2 and 10^2 ?

(A) 17

(B) 18

(C) 19

(D) 20

35. The value of the expression

$$\sqrt{1+23\sqrt{1+24\sqrt{1+25\sqrt{26\times28+1}}}}$$ is

equal to

(A) 24

(B) 25

(C) 26

(D) None of these

36. The cube root of 29791 is :

(A) 31

(B) 41

(C) 29

(D) 19

37. The smallest numbers by which 6561 must be multiplied so that product will be a perfect cube is :

(A) 3

(B) 7

(C) 9

(D) 11

38. Jack's monthly salary is Rs. 78,000. He spends 20% on fooding and 10 % on house rent. From the remaining, he spends 30% on his only son's education and donates 10% of the rest to charity. His monthly savings is :

(A) Rs. 35498

(B) Rs. 34498

(C) Rs. 34389

(D) Rs. 34398

39. 200 kg of sugar was purchased at the rate of Rs. 15 per kg and sold at a profit of 5%. Compute the selling price per kg.

(A) Rs. 18.25

(B) Rs. 13.85

(C) Rs. 15.75

(D) Rs. 31.50

***** B08151023 *****

Space for rough work

B08151023

40. If x is 25% of y, then what percent of x is y ?

(A) 75%

(B) 120%

(C) 100%

(D) 400%

41. Which of the following statement/s is/are **True(T)** or **False(F)** ?

(i) $\left(-\dfrac{6}{5} \div \dfrac{8}{9}\right) \div \dfrac{7}{10} \neq -\dfrac{6}{5} \div \left(\dfrac{8}{9} \div \dfrac{7}{10}\right)$

(ii) The reciprocal of positive rational number is always negative.

(iii) The absolute value of zero is zero.

Code :

	(i)	(ii)	(iii)
(A)	T	F	F
(B)	T	T	T
(C)	T	F	T
(D)	F	T	F

42. Which of the following statement/s is/are **True(T)** or **False(F)** ?

(i) The sum of first n odd number is $(2n+1)$.

(ii) The difference of two perfect cube is always a perfect cube.

(iii) The cube of two digits number may have more than seven digits.

Code :

	(i)	(ii)	(iii)
(A)	T	F	F
(B)	T	T	T
(C)	F	F	F
(D)	F	T	F

43. Which of the following statement/s is/are **True(T)** or **False(F)** ?

(i) If principal 'P' becomes 'n' times of itself in 'T' years at R% rate per-annum with simple interest, then $RT = (n-1)P \times 100$.

(ii) If 'A' is x% of 'C' and 'B' is y% of C then $A = \dfrac{x}{y} \times 100\%$ of B.

(iii) If a : b = 3 : 4, then a + b : b will be 3 : 7.

Code :

	(i)	(ii)	(iii)
(A)	T	F	F
(B)	T	T	T
(C)	F	F	T
(D)	F	T	F

***** B08151023 *****

Space for rough work

B08151023

44. Match **Column – I (Algebraic equation)** with **Column – II (Respective solution)** and select the correct answer using the codes given below.

Column – I	Column – II
P. $\dfrac{5}{4}x + \dfrac{3}{2} = \dfrac{1}{2}$	**1.** 0
Q. $\dfrac{3}{x} + 1 = 10$	**2.** $\dfrac{1}{3}$
R. $x^2 + 4x = x(x+1)$	**3.** $\dfrac{-4}{5}$

Code :

	P	Q	R
(A)	2	3	1
(B)	1	2	3
(C)	3	2	1
(D)	2	1	3

45. Match **Column – I** with **Column – II** and select the correct answer using the codes given below.

Column – I	Column – II
P. Value which occurs most often in a set of data is called	**1.** Frequency
Q. The most middle value when the set of the data is arranged in ascending or descending is called	**2.** Mode
R. The number of times a particular observation occurs is called	**3.** Median

Code :

	P	Q	R
(A)	2	3	1
(B)	3	1	2
(C)	1	2	3
(D)	2	1	3

Space for rough work

46. Match **Column – I** with **Column – II** and select the correct answer using the codes given below.

Column – I	Column – II
P. The smallest number with which 5400 may be multiplied so that product is a perfect square.	**1.** 131
Q. The least number that must be subtracted from 5607 so as to get perfect square	**2.** 21
R. Length of the side (in cm) of a square whose area is 441 cm²	**3.** 6

Code :

	P	Q	R
(A)	2	3	1
(B)	3	2	1
(C)	3	1	2
(D)	2	1	3

Paragraph for Questions 47 & 48

Raghav was discussing the chapter related to Polygon. Teacher explained him, "A polygon is a shape made up of some line segment. The sum of exterior angle of any polygon is 360º."
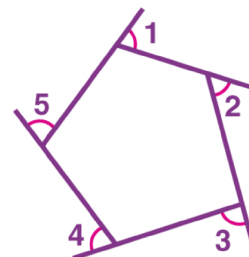
47. The number of sides in a regular polygon is 15, then measure of each exterior angle is :
(A) 24º
(B) 36º
(C) 20º
(D) 18º

48. The measure of each exterior angle of a regular hexagon is :
(A) 120º
(B) 80º
(C) 100º
(D) 60º

Space for rough work

"Be passionate and bold. Always keep learning. You stop doing useful things if you don't learn." **Page No. : 12**

Paragraph for Questions 49 & 50

The amount *'A'* is due after *'t'* years, when a principal *'P'* is given on compound interest at the rate R% per annum is given by

$A = P\left(1 + \dfrac{R}{100}\right)^t$. In general if the interest is compounded *'n'* times a year then rate and time become $\dfrac{1}{n}$ and *'n'* time respectively.

49. Find the compound interest on Rs. 1000 at 40% per annum compounded quarterly for 1 year.

(A) Rs. 450

(B) Rs. 464.10

(C) Rs. 460. 15

(D) None of these

50. Find the final amount after 3 months on Rs. 4000 at 24% per annum, compounded monthly.

(A) Rs. 244.83

(B) Rs. 257.35

(C) Rs. 4244.83

(D) Rs. 4257.35

***** B08151023 *****

Space for rough work

B08151023

PART V : LOGICAL REASONING & IQ

*This section contains **10 Multiple Choice Questions (Q : 51 to Q : 60)**. Each question has four choices (A), (B), (C) and (D) out of which ONLY ONE is correct.*

Direction (51 – 52) : Find the next term :

51. 0, 2, 24, 252, ?

(A) 620

(B) 1040

(C) 3120

(D) 5430

52. AYBZC, DWEXF, GUHVI, JSKTL, ?

(A) MQNOR

(B) MQORN

(C) MQNRO

(D) MQRRO

53. Which sequence of letters when placed at the blanks one after the other will complete the given letter series ?

_yz_zx_xyx_z_zxzxy

(A) xyzyy

(B) yyyzz

(C) yxzyx

(D) xyyzz

54. One morning, Udai and Vishal were talking to each other face to face at a crossing. If Vishal's shadow was exactly to the left of Udai, which direction was Udai facing ?

(A) East

(B) West

(C) North

(D) South

55. Sahil and Gaurav are standing in a row of boys. Sahil is 12th place from left side and Gaurav is 18th place from the right side of the row. If they interchange their positions then Sahil becomes 25th from left side. What is the total number of boys standing in the row ?

(A) 43

(B) 36

(C) 42

(D) 41

56. In a class of 40 students, Rohan rank is 21st from the bottom and Arun is 2nd rank below Rohan, then what is the rank of Arun from the top ?

(A) 21st

(B) 22nd

(C) 19th

(D) 23rd

57. If ÷ implies =, × implies <, + implies >, – implies ×, > implies ÷, < implies +, = implies –, identify the correct expression-

(A) $1 - 3 > 2 + 1 - 5 = 3 - 1 < 2$

(B) $1 - 3 > 2 + 1 \times 5 = 3 \times 1 > 2$

(C) $1 \times 3 > 2 + 1 \times 5 \times 3 - 1 > 2$

(D) $1 - 3 > 2 + 1 \times 5 + 3 - 1 > 2$

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"Be passionate and bold. Always keep learning. You stop doing useful things if you don't learn." **Page No. : 14**
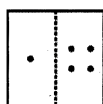
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58. If Q means 'add to', J means 'multiply by', T means 'subtract from' and K means 'divided by', then 26K2Q3J6T4 = ?
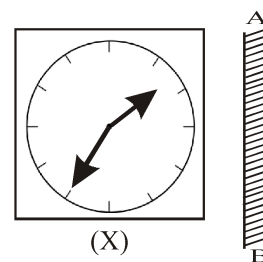
(A) 10

(B) 20

(C) 30

(D) 27

59. A square transparent sheet with a pattern is folded along the dotted line. Which of the following answer figure is formed after folding the transparent sheet?

(A)

(B)

(C)

(D)

60. In this question, choose the correct mirror image of the given figure (X) from alternatives where AB denotes the position of mirror :

(X)

(A)

(B)

(C)

(D)

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