



# MATRIX OLYMPAD

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.





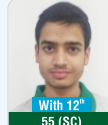


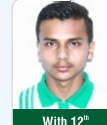


Answer Key and Video  
Solutions Kindly Scan  
QR Code and subscribe  
Matrix youtube channel

# MATRIX: Where producing outstanding results is a habit!

## JEE ADVANCED TOPPERS

 With XII Mayank Soni	AIR <b>26</b> (Gen.)	 With XII Priyanshu Meel	AIR <b>154</b> (Gen.)	 With XII Nagendra Singh	AIR <b>220</b> (Gen.)	 With XII Mohit Modi	AIR <b>296</b> (Gen.)	 With XII Aman Nehra	AIR <b>356</b> (Gen.)	 With XII Himanshu Rewar	AIR <b>358</b> (Gen.)	 With XII Aarish	AIR <b>415</b> (Gen.)	 With XII Uttam Paharia	AIR <b>421</b> (Gen.)
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## JEE MAIN TOPPERS

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

Marks- <b>680</b>  Rekha Nitharwal	AIR <b>1665</b>	Marks- <b>670</b>  Narendra Farroda	AIR <b>2905</b>	Marks- <b>667</b>  Mahendra Yadav	AIR <b>3263</b>	Marks- <b>666</b>  Ankit Kumar Chahar	AIR <b>3378</b>	Marks- <b>665</b>  Deepika Soni	AIR <b>3545</b>	Marks- <b>665</b>  Lokesh Goyal	AIR <b>3621</b>	Marks- <b>665</b>  Mohit Haritwal	AIR <b>3661</b>
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## KVPY TOPPERS

 Manas Jajodia	AIR <b>6</b> (Gen.) Stream- SB	 Ishu	AIR <b>8</b> (Gen.) Stream- SB	 Lakshya	AIR <b>13</b> (Gen.) Stream- SB	 Akshay Choudhary	AIR <b>17</b> (Gen.) Stream- SB	 Chirag Indoria	AIR <b>37</b> (Gen.) Stream- SB
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## STSE TOPPERS

 Class 12 <sup>th</sup> Aman Nehra	1 <sup>st</sup> State Rank	 Class 12 <sup>th</sup> Aman Nehra	2 <sup>nd</sup> State Rank	 Class 12 <sup>th</sup> Dinesh Kumar	2 <sup>nd</sup> State Rank	 Class 10 <sup>th</sup> Pranshu Bharia	2 <sup>nd</sup> State Rank	 Class 10 <sup>th</sup> Shrishti	2 <sup>nd</sup> State Rank	 Class 10 <sup>th</sup> Rohit Yadav	2 <sup>nd</sup> State Rank	 Class 10 <sup>th</sup> Dev Kumar	3 <sup>rd</sup> State Rank	 Class 10 <sup>th</sup> Mohd. Farhan	3 <sup>rd</sup> State Rank
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## OUR BOARD TOPPERS

99.20%  Class 10 <sup>th</sup> Pinakin Choudhary	98.80%  Class 10 <sup>th</sup> Aradhya Raina	98.20%  Class 10 <sup>th</sup> Laxmi	98.00%  Class 10 <sup>th</sup> Vishal Choudhary	97.80%  Class 10 <sup>th</sup> Preksha Singh	97.80%  Class 12 <sup>th</sup> Piyush Sagatani	97.60%  Class 12 <sup>th</sup> Khushee Binwal	97.60%  Class 12 <sup>th</sup> Reena	97.60%  Class 12 <sup>th</sup> Siddhant Lalpuria	97.40%  Class 12 <sup>th</sup> Rohit Yadav
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## NTSE TOPPERS

 Aditya Jhajhria	1 <sup>st</sup> State Rank	 Nayan Godara	1 <sup>st</sup> State Rank	 Aman Nehra	1 <sup>st</sup> State Rank	 Aaditya Pratap	2 <sup>nd</sup> State Rank	 Mayank Soni	2 <sup>nd</sup> State Rank	 Aditya Bijarniya	4 <sup>th</sup> State Rank	 Pragati	5 <sup>th</sup> State Rank
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Authenticity of result, promise of Matrix!

\*cumulative result so far

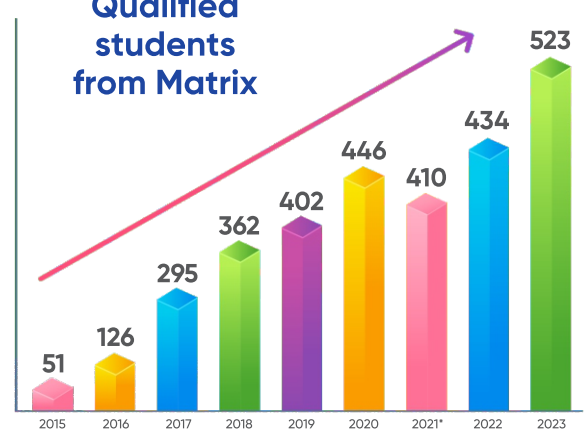
यह परिणाम मैट्रिक्स के केवल Yearlong classroom Program Students का ही है

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

## JEE Main Qualified students from Matrix



## JEE Advanced Qualified students from Matrix



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

\*due to covid

"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

**2000+**

final admissions  
in various top IITs  
over last 5 years –  
Highest in Sikar

**3500+**

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

**2023** RESULT

Top score in  
JEE Main 2023  
Mayank Soni

Rank- **34**

Top scorer  
JEE Advanced 2023  
Mayank Soni

AIR- **26** (Gen)

**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.

Matrix System has  
produced one of  
the highest  
**NDA**  
selections in Sikar  
at a very early stage.

**70** selections  
in NDA 2023  
April attempt!

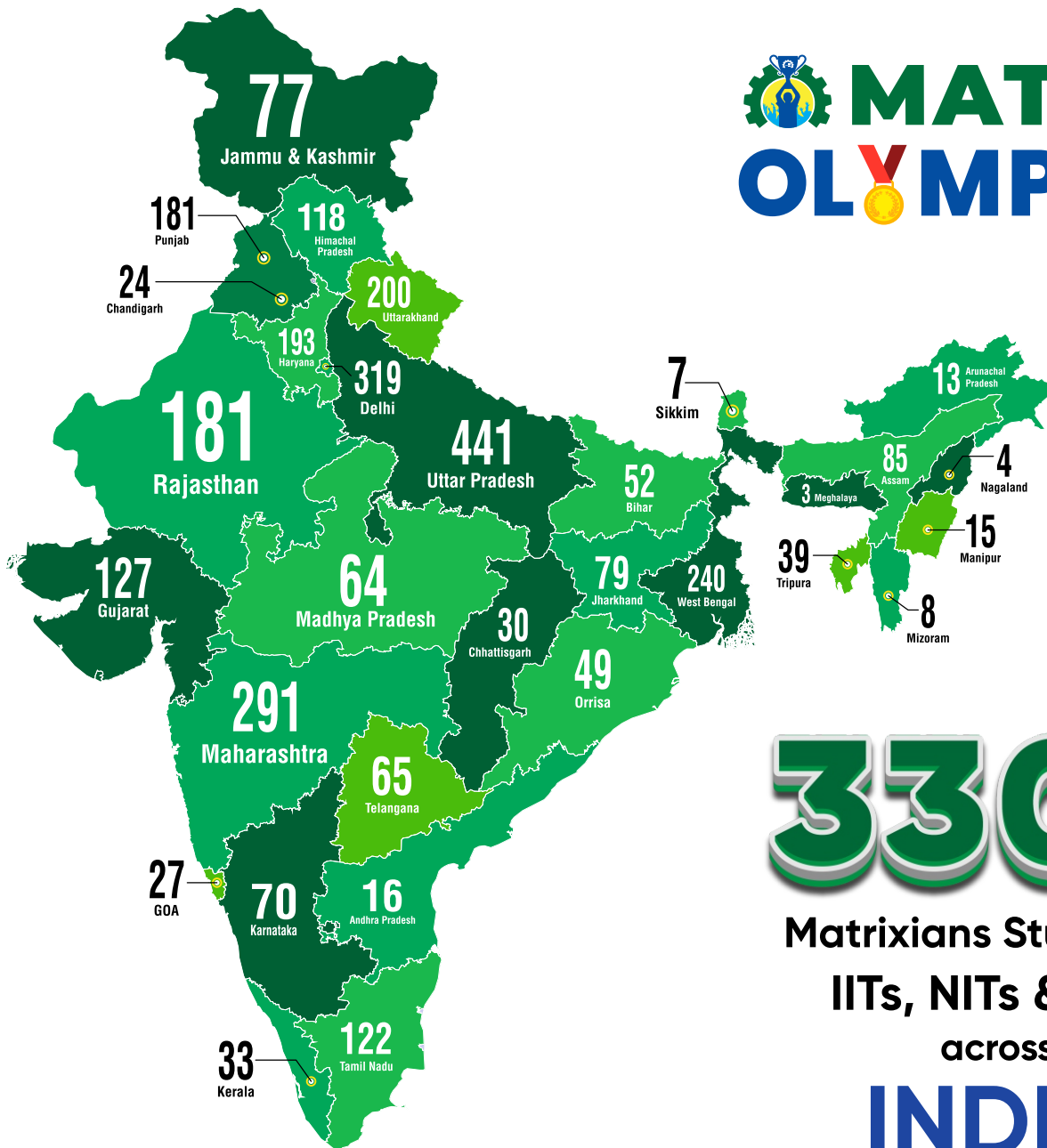
The Most  
**INNOVATIVE  
INSTITUTE** for  
**NEET, JEE &  
Pre-foundation**  
Covering & Serving

**5**  
Major State of  
the Country

Every student  
matters! Every  
student has  
potential!

Highest quality  
of management  
and student care  
for each student





# 3302

Matrixians Studied at  
IITs, NITs & IIITs  
across  
**INDIA**





# 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. Which of the following is not a derived physical quantity?
- (A) Acceleration  
(B) Velocity  
(C) Speed  
(D) Length

2. Which of the following is not a luminous light source?
- (A) Fireflies  
(B) The moon  
(C) Electric bulb  
(D) Candle

3. One metric ton = \_\_\_\_\_.
- (A) 1000 kg  
(B) 100 quintals  
(C) 10 megagram  
(D) 1000 nanogram

4. Which of the following statement/s is/are **True(T)** or **False(F)** ?
- (i) A light source, an opaque object and an opaque screen is required to form a shadow.  
(ii) Image formed by a pinhole camera is always virtual, erect and same in size as object.  
(iii) Image formed by a plane mirror is always laterally inverted.

Code :

(i) (ii) (iii)

- (A) T F T  
(B) T T T  
(C) F F T  
(D) F T F

5. The SI unit of amount of substance is -
- (A) candela  
(B) ampere  
(C) mole  
(D) coulomb

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

**Column – I**

**Column – II**

**P.** Incandescent source

**Q.** Luminescent source

**R.** Gas discharge source

**1.** LED

**2.** Neon lamp

**3.** Red hot iron rod in forge

Code :

**P Q R**

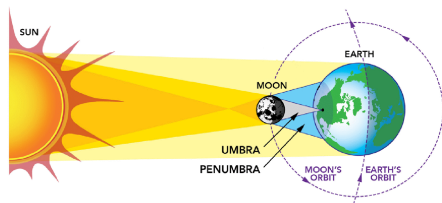
- (A) 2 3 1  
(B) 3 1 2  
(C) 1 2 3  
(D) 2 1 3

Space for rough work

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7. On the day of an eclipse, Jaadu and Rohit are observing the shadow formed on earth due to the eclipse. They are trying to understand the nature of the eclipse in different regions according to the much darker shadow and less - darker shadow. Help them by answering the following question.



Based on the above diagram, in the darkest region of shadow \_\_\_\_\_ eclipse occurs and in less - darker region \_\_\_\_\_ eclipse occurs.

- (A) Total solar, Partial solar
- (B) Total lunar, Partial lunar
- (C) Partial lunar, Total lunar
- (D) Total solar, Partial lunar

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## 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. Cotton plants are usually grown at places having:

- (A) Residual red soil and cold climate
- (B) Black soil and warm climate
- (C) Alluvial soil and warm climate
- (D) Black soil and cold climate

9. Which pair of substances among the following can be grouped as soft materials ?

- (A) Wood, Cotton
- (B) Aluminium, Diamond
- (C) Wax, Sponge
- (D) Wood, Stone

10. From the given options choose the one that does not belongs to the group.

- (A) Milk
- (B) Honey
- (C) Oil
- (D) Ink

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

- (i) Iron, copper and aluminium are examples of lustrous materials.
- (ii) Oil floats on water because it is less denser than water.
- (iii) Materials are grouped together for convenience and to study their properties.

**Code :**

(i) (ii) (iii)

- (A) T F F
- (B) T T T
- (C) F F T
- (D) F T F

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

Column – I	Column – II
P. The process of separating cotton from seeds	1. Weaving
Q. A single yarn is used to make fabric	2. Knitting
R. The process of making fabric from yarn	3. Ginning



**Code :**

P Q R

- (A) 2 3 1
- (B) 3 2 1
- (C) 3 1 2
- (D) 2 1 3

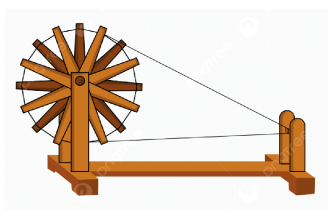
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13. The process of making yarn from fibres is called spinning. Fibres from a mass of cotton wool are drawn out and twisted. This brings the fibres together to make a strong yarn. In the villages of India, lint is directly spun into yarn on a 'spinning wheel' or charkha. Another simple device for spinning yarn is the hand spindle or takli.



Twisting of fibres into yarn increases the \_\_\_\_\_ of fibres.

- (A) Shine
- (B) Strength
- (C) Price
- (D) None of these

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### 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. Composition of fats are \_\_\_\_\_.  
 (A) Carbon, Sulphur and Hydrogen  
 (B) Carbon, Sulphur and Nitrogen  
 (C) Oxygen, Nitrogen and Hydrogen  
 (D) Oxygen, Carbon and Hydrogen
15. Starch can be tested by using \_\_\_\_\_.  
 (A) Iodine Solution  
 (B) Caustic Soda  
 (C) Copper Sulphate  
 (D) Fehling's Solution
16. Which part of a mustard plant is edible ?  
 (A) Seeds and flowers  
 (B) Leaves and flowers  
 (C) Seeds and leaves  
 (D) Stem and roots
17. Honey bees are often seen sitting on flowers.  
 Why do they do so ?  
 (A) They like flowers  
 (B) They lay eggs on flowers  
 (C) They suck nectar from flowers  
 (D) All of these

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

Column – I	Column – II
P. Amla	1. Iodine
Q. Carrot	2. Vitamin C
R. Salt	3. Vitamin A

**Code :**

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

19. Which of the following statement/s is/are **True(T)** or **False(F)** ?  
 (i) Different people have different choices of food.  
 (ii) If a person does not get food he feels weak and is likely to fall ill.  
 (iii) Human beings, animals, birds, insects, etc. eat the same type of food.

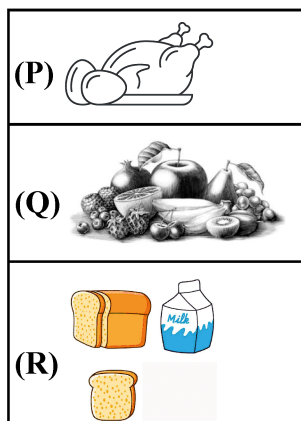
**Code :**

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

*Space for rough work*

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20. Our body requires Vitamins and Minerals for various vital processes of life and for formation of blood, bones and teeth. These Vitamins and Minerals though needed in small quantities are very important for various bodily functions. Which of the following labelled boxes contain protective food ?



- (A) P and Q  
(B) Q only  
(C) R only  
(D) Q and R

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*Space for rough work*

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# 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.

- |   |   |
|---|---|
| <p><b>21.</b> Place value of 8 in 86,93,04,600 is :</p> <p>(A) Eight crores</p> <p>(B) Eighty crores</p> <p>(C) Crores</p> <p>(D) Eighty six crore</p> <p><b>22.</b> How is 498 written in roman numerals ?</p> <p>(A) CDCXVIII</p> <p>(B) CDCXIV</p> <p>(C) CDXCVIII</p> <p>(D) CDXCVII</p> <p><b>23.</b> Choose the correct order :</p> <p>(A) <math>85678 &gt; 84321 &gt; 86721</math></p> <p>(B) <math>84321 &lt; 85678 &lt; 86721</math></p> <p>(C) <math>54679 &gt; 45645 &gt; 46452</math></p> <p>(D) <math>64532 &lt; 72896 &lt; 54763</math></p> <p><b>24.</b> Which of the following is correct statement ?</p> <p>(A) <math>999 + 1 = 10 \times 1000</math></p> <p>(B) Greatest 2 digit number +1 = Smallest 3 digit number</p> <p>(C) <math>999 + 1 = 100000</math></p> <p>(D) Greatest 3 digit number +1 = Smallest 3 digit number</p> | <p><b>25.</b> The difference between the greatest 6 - digits number and lowest 4- digit number is :</p> <p>(A) 999999</p> <p>(B) 988997</p> <p>(C) 998999</p> <p>(D) 998877</p> <p><b>26.</b> Which of the following represents associative property ?</p> <p>(A) <math>a + b = b + a</math></p> <p>(B) <math>a \times (b + c) = (a \times b) + (a \times c)</math></p> <p>(C) <math>(a + b) + c = a + (b + c)</math></p> <p>(D) <math>a \times (b - c) = (a \times b) - (a \times c)</math></p> <p><b>27.</b> Three consecutive successor of 583699 are :</p> <p>(A) 583700, 583701, 583702</p> <p>(B) 583698, 583697, 583696</p> <p>(C) 583799, 583899, 583999</p> <p>(D) 583701, 583704, 583703</p> <p><b>28.</b> If the school canteen charges Rs. 200 for lunch and Rs. 10 for milk for each day, then find the total money spend in 6 days on these things.</p> <p>(A) Rs. 210</p> <p>(B) Rs. 2100</p> <p>(C) Rs. 21000</p> <p>(D) Rs. 1260</p> |
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29. A number is divisible by both 5 and 12. By which other number will that number be always divisible ?

- (A) 50
- (B) 60
- (C) 70
- (D) 80

30. The least 5 digit number which is exactly divisible by each of 2, 3, 4, 5, 6 and 7 is :

- (A) 96500
- (B) 14200
- (C) 10,080
- (D) 96605

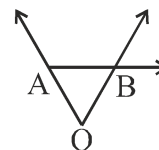
31. How many prime numbers are there in between 20 and 70 ?

- (A) 9
- (B) 13
- (C) 11
- (D) 16

32. Find the smallest value of ' $\oplus$ ' in the number  $156 \oplus 0$ . So that it is divisible by 10 is :

- (A) 2
- (B) 1
- (C) 0
- (D) All of these

33. Which of the following does not represent a ray in the given figure ?



- (A)  $\overrightarrow{OA}$
- (B)  $\overrightarrow{OB}$
- (C)  $\overrightarrow{BA}$
- (D)  $\overrightarrow{AB}$

34. If three or more straight lines pass through the same point, then the lines are called :

- (A) Parallel lines
- (B) Intersecting line
- (C) Perpendicular line
- (D) Concurrent lines

35. If end points of a curve are joined, then it is said to be :

- (A) Closed curve
- (B) Open curve
- (C) Fined curve
- (D) Loose curve

36. The relation between radius (r) and diameter (d) of a circle is :

- (A)  $d = r/3$
- (B)  $d = 3r$
- (C)  $d = \frac{r}{2}$
- (D)  $d = 2r$

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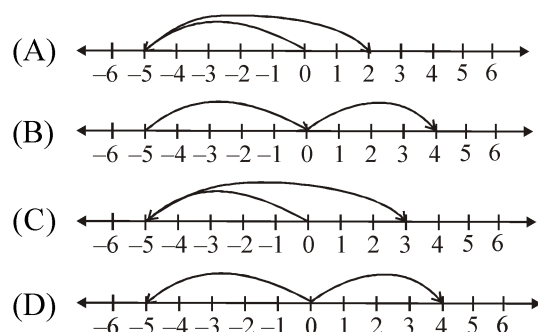
37. Which of the following are arranged in descending order ?

- (A)  $-428, -386, -213, 428, 936$   
(B)  $-881, -954, -287, -1018, -3261$   
(C)  $428, -628, -936, -1059, -2361$   
(D)  $-421, -331, 248, 794, 542$

38. On the number line “ $-50$ ” lies to the :

- (A) Left of  $-60$   
(B) Right of  $50$   
(C) Right of  $-60$   
(D) Right of  $0$

39. Which of the following number line represents  $(-5) + 8$  ?



40. A gardner plans to plant 630 trees in 21 rows each containing the same number of trees, then how many trees will be there in each row ?

- (A) 300  
(B) 30  
(C) 21  
(D) 3

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

- (i) For any integer  $a$ ,  $a \div a = -1$ .  
(ii) The product of two numbers with opposite sign is always negative.  
(iii) The multiplicative identity for integers is  $-1$ .

**Code :**

(i) (ii) (iii)

- (A) T F F  
(B) T T T  
(C) F F T  
(D) F T F

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

- (i) A circle have more than one centre.  
(ii) The region bounded by chord and minor arc is called minor segment.  
(iii) A line segment has a finite length.

**Code :**

(i) (ii) (iii)

- (A) T F F  
(B) F T T  
(C) F F T  
(D) F T F

Space for rough work

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

- (i) Zero is the smallest whole number.  
(ii) The whole number zero has no predecessor.  
(iii) All whole numbers are natural number.

**Code :**

(i) (ii) (iii)

- (A) T T F  
(B) T T T  
(C) F F T  
(D) F T F

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

Column – I	Column – II
P. $(-7) - 8 - (-25)$	1. 09
Q. $(-13) + 32 - 8 - 4$	2. 07
R. $50 - (-40) - 81$	3. 10

**Code :**

P Q R

- (A) 3 2 1  
(B) 3 1 2  
(C) 2 1 3  
(D) 2 3 1

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

Column – I	Column – II
P. A number divisible by 12 is :	1. 121
Q. 7th Multiple of 15.	2. 180
R. Multiple of 11	3. 105

**Code :**

P Q R

(A) 3 2 1

(B) 3 1 2

(C) 2 1 3

(D) 2 3 1

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

Column – I	Column – II
P. Five sixth of a straight angle	1. $150^\circ$
Q. Three right angle	2. $72^\circ$
R. $\frac{4}{5}$ of a right angle	3. $270^\circ$

**Code :**

P Q R

(A) 3 2 1

(B) 1 3 2

(C) 2 1 3

(D) 2 3 1

Space for rough work

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**Paragraph for Questions 47 & 48**

If a, b, c are three whole numbers then-

$$(a + b) + c = a + (b + c)$$

$$a \times (b + c) = (a \times b) + (a \times c)$$

47. Find the value of  $1546 + (984 + 5389)$

- (A) 1917  
(B) 2530  
(C) 7990  
(D) 7919

48. Find the product of  $125 \times 109$  ?

- (A) 10900  
(B) 13625  
(C) 12500  
(D) 13256

**Paragraph for Questions 49 & 50**

**Faces :** The flat surface of any solid is called face.

**Edges :** Line segment where two faces meet is called an edge.

**Vertices :** Corners of the solids are its vertices.

49. Find the number of faces of tetrahedron.

- (A) 4  
(B) 8  
(C) 6  
(D) 5

50. Find the number of edges of rectangular prism.

- (A) 12  
(B) 8  
(C) 6  
(D) 10

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*Space for rough work*

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# 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) :** In each of the following questions, a number series is given with one term missing. Choose the correct alternative that will continue the same pattern and replace the question mark in the given series.

51. 1, 5, 13, 25, 41, ?

- (A) 51
- (B) 57
- (C) 61
- (D) 63

52. 1, 1, 4, 8, 9, 27, 16, ?

- (A) 32
- (B) 64
- (C) 81
- (D) 256

53. In the given question, various terms of an alphabet series are given with one term missing as shown by (?). Choose the missing term out of the given alternatives :

B, D, F, I, L, P, ?

- (A) R
- (B) S
- (C) T
- (D) U

54. I stand with my right hand extended side - ways towards South. Towards which direction will my back be ?

- (A) North
- (B) South
- (C) West
- (D) East

55. Aditya started to walk straight towards West. After walking 10m he turned to the right and walked 6m. After this he turned to the left and walked 10m. Now to which direction Aditya is facing ?

- (A) East
- (B) North
- (C) West
- (D) South

56. Choose the alternative which is closely resembles the mirror image of the given combination of alphabets :

WHITE

- (A) ETIHW
- (B) ETIHM
- (C) EIIHW
- (D) ETIHW

Space for rough work

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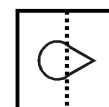


57. Choose the alternative which is closely resembles the water-image of the given combination of alphabets :

**RECRUIT**

- (A) LIURCER  
(B) BECRNII  
(C) RECRCR  
(D) BECRNII
58. If Shubham is standing in line of boys. If he is at 25<sup>th</sup> place from right end and 25<sup>th</sup> place from left end also. Then number of boys standing in the row is ?
- (A) 48  
(B) 50  
(C) 49  
(D) 51
59. What is the value of given expression by using BODMAS :
- $$10 + 10 \times 10 \div 10 = ?$$
- (A) 10  
(B) 15  
(C) 20  
(D) 11

60. Find out from amongst the four alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line :



(X)

- (A)
- (B)
- (C)
- (D)

Space for rough work

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