

#TAYAARI HI JEET HAI



SCORE

Sri Chaitanya **Outstanding Achiever Reward Examination**

6th OCTOBER 2024

For Class **5th, 6th, 7th, 8th, 9th & 10th**

PREVIOUS YEAR PAPER

CLASS 7th



Sri Chaitanya

PHYSICS

SECTION 1 (Maximum Marks: 30)

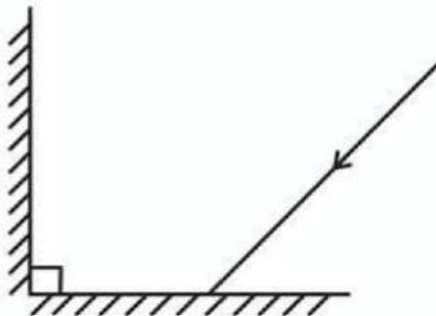
- This section contains **TEN** questions.
- Each question has **FOUR** options (A), (B), (C) and (D). **ONLY ONE** of these four options is correct.
- For each question, darken the bubble corresponding to the correct option in the OMR.
- For each question, marks will be awarded in one of the following categories:

Full Marks	:	+3, if only the bubble corresponding to the correct option is darkened.
Zero Marks	:	0, if none of the bubble is darkened
Negative Marks	:	-1, in all other cases

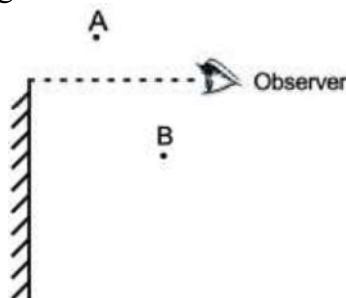
Instructions: (Take $g = 10\text{m/s}^2$, wherever required)

1. Image formed by a plane mirror

A) is always real	B) is always virtual
C) can be both real and virtual	D) none of these
2. A ray of light strikes two mutually perpendicular mirrors as shown in the figure. Find the total deviation of ray of light after reflection from both the mirrors.

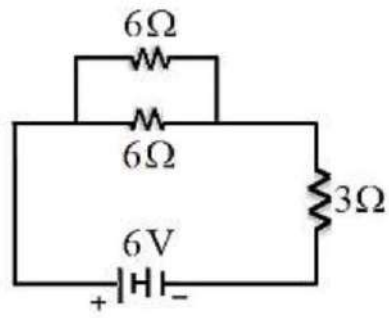


- A) 0° B) 180° C) 90° D) 45°
3. Two objects A and B are placed in front of a plane mirror. An observer stands in front of the mirror as shown in figure. Choose the correct statement :

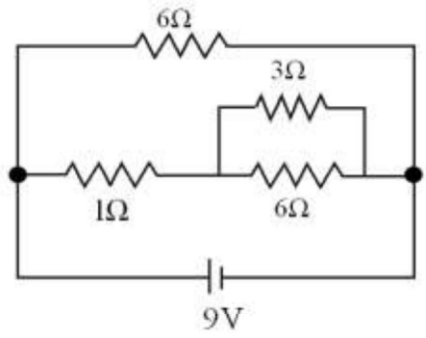


- A) Two images are formed & observer can see both images
- B) Two images are formed but observer can see only 1 image
- C) Two images are formed but observer cannot see any image
- D) Only 1 image is formed and observer can see the image

4. A particle moves on a circular path of radius 'R'. If the particle covers 60° angle on the circular path, then find its displacement.
 A) 0 B) $\frac{R}{2}$ C) $\frac{4R}{5}$ D) R
5. A car has a upper speed limit of 72 km/hr and it can accelerate at 2 m/s^2 . It crosses a point P while moving with speed 10 m/s. Find the minimum time in which the car can reach a point Q which is 600m away from P (Along the direction of motion).
 A) 31.25 sec B) 20 sec C) 37.5 sec D) 25 sec
6. An object is in front of a plane mirror at some distance. If the mirror is moved towards the object by 2 cm and object is moved towards the mirror by 1 cm then find the distance by which image moves
 A) 5 cm B) 1 cm C) 3 cm D) 4 cm
7. What is the amount of current flowing through the 3Ω resistance in the given circuit?



- A) 1.5A B) 2A C) 1A D) 3A
8. A combination of resistors is connected to a battery as shown in diagram. Find potential difference across ' 1Ω ' resistor.



- A) 6V B) 3V C) 9V D) 1V
9. A train travelling at a speed of 54km/hr has to stop at a station 500m away from it. How much retardation is required for the same?
 A) 2.25 m/s^2 B) 225 m/s^2 C) 0.225 m/s^2 D) 22.5 m/s^2

-
10. A car travelling at a speed of 50m/s stops when the signal turns red, calculate the distance travelled by the car before stopping if reaction time of the driver is 0.05s and the brakes provide a retardation of 50m/s^2 .
- A) 25m B) 27.5m C) 25.5m D) 30m

BIOLOGY**SECTION 1 (Maximum Marks: 30)**

- This section contains **TEN** questions.
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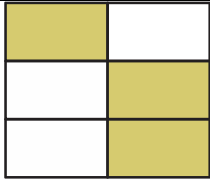
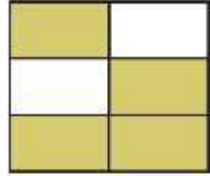
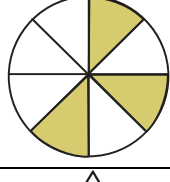
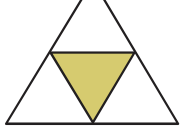
21. Chlorophyll is present inside the
- A) Stroma
B) Inter membrane space of plastid
C) Hypodermis
D) Granna
22. The number of incisors, molars, premolars and canines in the buccal cavity is
- A) 8, 4, 8, 8
B) 8, 4, 8, 4
C) 4, 8, 8, 8
D) 8, 8, 8, 4
23. Arpit observed that a pond with clear water was covered up with a green algae within a week. By which method of reproduction did the algae spread so rapidly?
- A) Budding
B) Sexual reproduction
C) Fragmentation
D) Pollination
24. Sometimes when we do heavy exercise, anaerobic respiration takes place in our muscle cells. What is produced during this process?
- A) Alcohol and lactic acid
B) Alcohol and CO₂
C) Lactic acid and CO₂
D) Lactic acid only
25. Absence sweating, mechanism to conserve water, etc. are adaptive features of animals living in
- A) Polar regions
B) Tropical regions
C) Desert regions
D) Equatorial region
26. Humans cannot digest cellulose whereas cows can do so because
- A) Their gut contains certain bacteria capable of digesting cellulose
B) They have a many-chambered stomach
C) They have efficient grinding molars
D) They produce an enzyme cellulase which can digest cellulose

MATHS

SECTION 1 (Maximum Marks: 60)

- This section contains **TWENTY** questions.
- Each question has **FOUR** options (A), (B), (C) and (D). **ONLY ONE** of these four options is correct.
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31. Match the fraction of each of the following

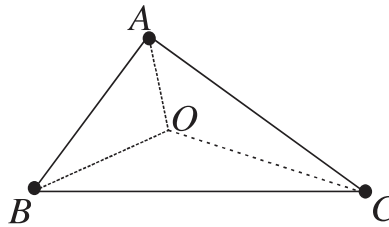
<ul style="list-style-type: none"> • $A = \frac{1}{4}$ 	<ul style="list-style-type: none"> •  <p>P</p>
<ul style="list-style-type: none"> • $B = \frac{2}{3}$ 	<ul style="list-style-type: none"> •  <p>Q</p>
<ul style="list-style-type: none"> • $C = \frac{1}{2}$ 	<ul style="list-style-type: none"> •  <p>R</p>
<ul style="list-style-type: none"> • $D = \frac{3}{8}$ 	<ul style="list-style-type: none"> •  <p>S</p>

- | | | | |
|--------|-----|-----|-----|
| A) A-P | B-Q | C-R | D-S |
| B) A-Q | B-P | C-S | D-R |
| C) A-Q | B-S | C-P | D-R |
| D) A-S | B-Q | C-P | D-R |

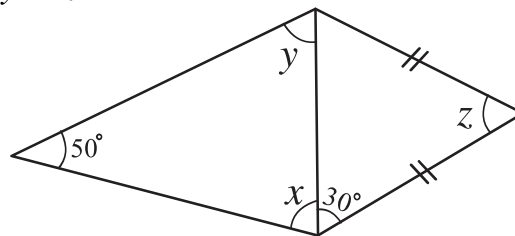
32. Natural numbers are written on a board, of which no two are the same. The product of the two smallest numbers is 16, the product of the two biggest is 225. What is the sum of all numbers written on the board?

- | | |
|--------|-------|
| A) 243 | B) 42 |
| C) 44 | D) 58 |

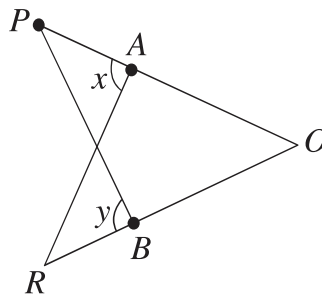
33. Let O be any point in the interior of a triangle $\triangle ABC$ then, which of the following is incorrect?



- A) $BC + CA + AB < 2(OB + BC + OA)$ B) $OB + OC > BC$
 C) $OC + OA > CA$ D) $OA + OB < AB$
34. The sum of angles x , y & z will be



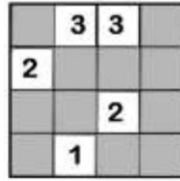
- A) 180° B) 240° C) 250° D) 360°
35. In the given figure, $\angle x = \angle y$ & $PO = RO$ then which of the following is INCORRECT



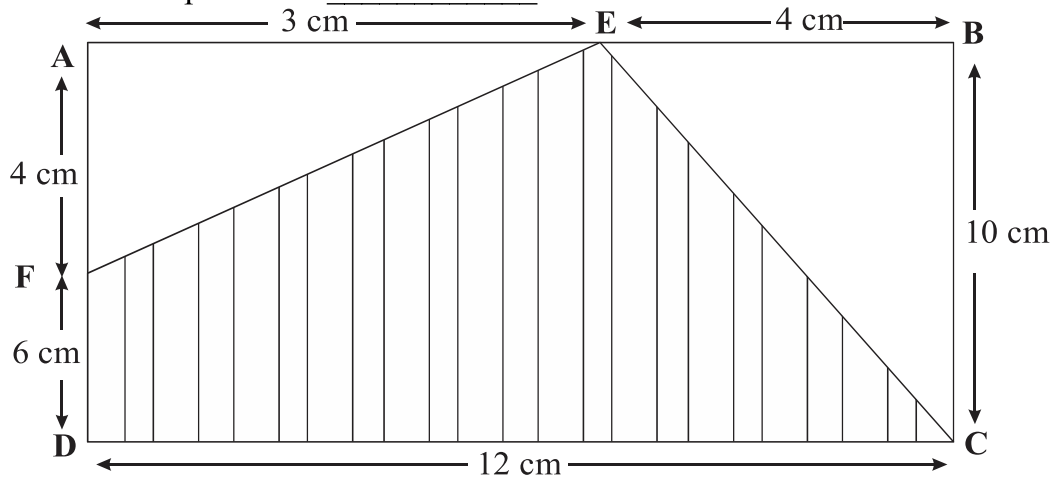
- A) $\angle RAO = \angle PBO$ B) $BP = AR$
 C) $BO = PA$ D) $\angle OPB = \angle ARO$
36. Let the present ages of A and B be in the ratio $9 : 4$. Seven year hence, the ratio of their ages will be $5 : 3$. Find the present age of A.
 A) 16 years B) 18 years
 C) 20 years D) None

37. Find the value of x & y
 $(10\% \text{ of } x) + (20\% \text{ of } y) = 24$
 $3x - y = 20$
 A) $x = 40; y = 100$ B) $x = 100; y = 40$
 C) $x = 60; y = 120$ D) None

44. Riu has hidden a Smiley behind some of the grey boxes. The numbers state how many Smileys there are in the neighbouring boxes. Two boxes are neighbouring if they have one side or one corner in common. How many Smileys has Riu hidden?



- A) 4
 B) 5
 C) 7
 D) 6
45. The average of 2, 3, 5 and m is 5 and the average of 2, 15, 3, m and n is 10. Find $m - n$.
- A) -10
 B) -20
 C) 10
 D) 20
46. Area of shaded portion is _____



- A) 34cm^2
 B) 24cm^2
 C) 94cm^2
 D) 84cm^2

47. Fill in the blank and select the correct option.

- (i) When a die is thrown, the probability of getting a number less than 4 is _____
- (ii) _____ is the measure of central tendency greater than the median of data 12, 13, 11, 13, 14, 12, 11, 13, 14, 12, 11, 14, 12.
- (iii) When a die is rolled once, the probability of getting a number, which is multiple of 3 is _____.
- (iv) To find the _____ of data, the sum of all the observation is divided by number of observation.

	(i)	(ii)	(iii)	(iv)
A)	$\frac{5}{6}$	mode	$\frac{2}{5}$	mean
B)	$\frac{3}{6}$	mean	$\frac{1}{3}$	mean
C)	$\frac{3}{5}$	mode	$\frac{1}{3}$	median
D)	$\frac{4}{6}$	mode	$\frac{1}{3}$	mode

48. Simplify

- (i) $2a^2b(a - b^2) + ab^2(4ab - 2a^2) - a^3b(1 - 2b)$
- (ii) $(2x^2 + 4y^2) + (7y^2 - 10) - [(3x^2 + 4y^2) + (7y^2 - 14)]$

	(i)	(ii)
A)	$a^2b + 2ab$	$x^2 - 4$
B)	$a^3b - 2a^2b^3$	$-2x^2 - 8$
C)	$a^3b + 2a^2b^3$	$-x^2 + 4$
D)	$a^2b - 2ab$	$-4x^2 + 16$

49. More than 800 people take part in the SCORE-run. Amongst the participants 35% are female. There are 252 more male than female participants. How many people in total are taking part in the run?

- A) 812
B) 840
C) 822
D) 880

50. If $\frac{x}{y} = \frac{3}{4}$, then which of the following expression is incorrect?

- A) $\frac{x+y}{x-y} = \frac{7}{-1}$
B) $\frac{x-y}{y} = \frac{1}{4}$
C) $\frac{y}{y+x} = \frac{4}{7}$
D) $\frac{x+y}{y} = \frac{7}{4}$

53. Identify which number does not fit in the sequence?

156, 182, 210, 240, 282, 306

A) 182

B) 282

C) 210

D) 306

54. What is the number in place of “?”

6, 15, 35, 77, ?, 221

A) 121

B) 163

C) 143

D) 153

55. A family consist of six members P, Q, R, X, Y, Z.

Q is the son of R but R is not mother of Q.

P and R are a married couple.

Y is the brother of R. X is the daughter of P, Z is the brother of Q.

Which symbol represents all the children of P?

A) QZ

B) QXZ

C) XZR

D) QXYZ

56. If water image of OXIDE is OXIDE, then water image of METAL will be

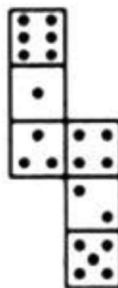
A) JATEM

B) WETAM

C) METAJ

D) METAL

57. How many dots lie opposite the face having three dots, when the given figure is folded to form a cube?



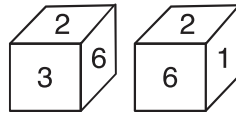
A) 2

B) 4

C) 5

D) 6

58. Two positions of a dice are shown. When number 3 is on the top, what number will be at the bottom?



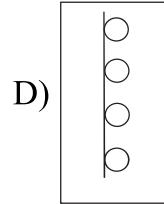
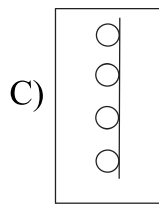
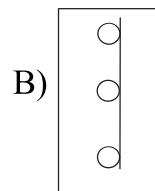
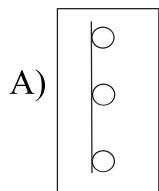
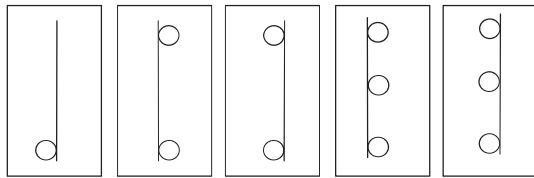
A) 1 but not 4

B) 4 but not 1

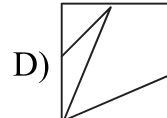
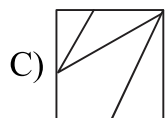
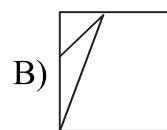
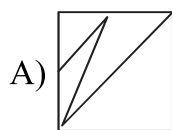
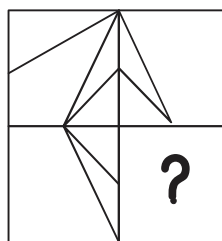
C) 5 or 4

D) 5 but no 4

59. Which figure should come next among the options given below.



60. Complete the missing pattern



68. The following table shows the distribution of Boys and Girls students of seven different schools.

School	Boys (Total 27,300)	Girls (Total 24,700)
A.	17%	8%
B.	12%	15%
C.	12%	12%
D.	13%	13%
E.	19%	14%
F.	14%	21%
G.	15%	17%

What is the ratio between the number of Girls and Boys students respectively from school F?

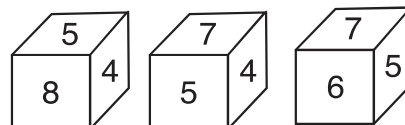
- A) 21:14
- B) 19:21
- C) 17:21
- D) 19:14

69. How many quadrilaterals are there in the given figure?



- A) 10
- B) 11
- C) 12
- D) 13

70. A pattern is being followed to derive numbers using two out of the six numbers appearing on the faces of a dice having numbers from 4 to 9, both inclusive. Two such pairs yield 106 and 52. What will be third pair yield?



- A) 100
- B) 113
- C) 130
- D) 145

SPACE FOR ROUGH WORK



Sri Chaitanya

Class 7th

Answer Key

Code A

Q. NO.	CODE-A	Q. NO.	CODE-A	Q. NO.	CODE-A	Q. NO.	CODE-A
1	C	11	B	21	D	31	D
2	B	12	C	22	D	32	C
3	B	13	D	23	C	33	D
4	D	14	B	24	D	34	C
5	A	15	D	25	C	35	C
6	A	16	D	26	A	36	B
7	C	17	C	27	B	37	A
8	B	18	A	28	A	38	C
9	C	19	A	29	B	39	D
10	B	20	A	30	B	40	B

Q. NO.	CODE-A	Q. NO.	CODE-A	Q. NO.	CODE-A
41	B	51	D	61	D
42	C	52	B	62	B
43	A	53	B	63	C
44	B	54	B	64	C
45	A	55	B	65	B
46	C or D	56	B	66	D
47	B	57	D	67	C
48	C	58	A	68	D
49	B	59	D	69	C
50	B	60	D	70	B