

#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 9th



Sri Chaitanya

PART I: PHYSICS

SECTION 1 (Maximum Marks: 30)

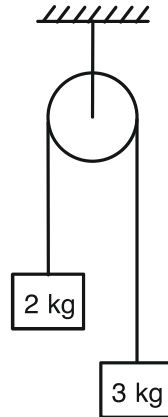
- This section contains **TEN** questions.
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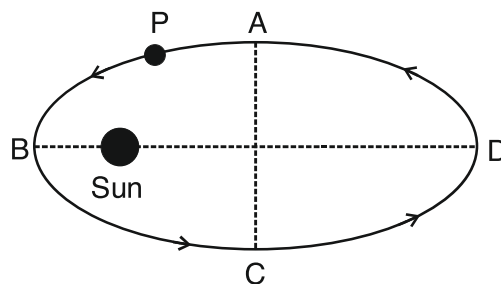
Instructions: (Take $g = 10 \text{ m/s}^2$, wherever required)

1. Find the force on the clamp holding the pulley shown in the diagram below?

[Take $g = 10 \text{ m/s}^2$]



- A) 50 N B) 48 N C) 30 N D) 60 N
2. A planet P, revolves around sun in an elliptical orbit under the influence of gravitational force only as shown. Which of the following option is correct for time (T) taken by the planet to travel paths as indicated



- A) $T_{ABC} < T_{CDA}$ B) $T_{ABC} > T_{CDA}$ C) $T_{ABC} = T_{CDA}$ D) None of these

3. Assuming that air offers constant retardation of 1 m/s^2 to any moving body ; find the ratio of time of ascent to time of descent for a body thrown vertically upwards from ground with some speed. [Take $g = 10 \text{ m/s}^2$]

A) $\frac{11}{9}$

B) $\frac{\sqrt{11}}{9}$

C) $\sqrt{\frac{9}{11}}$

D) 1 : 1

4. A body weights 10 gm in air and 8 gm in water. If density of water is 1 gm/cm^3 , find the density of body.

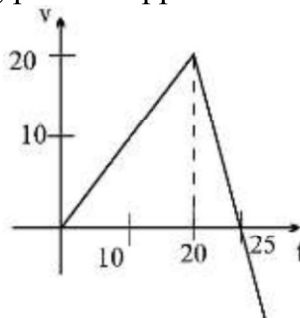
A) 2 g/cm^3

B) 4 g/cm^3

C) 8 g/cm^3

D) 5 g/cm^3

5. The fig. shows the $v-t$ graph of a particle moving in a straight line. The time when particle returns to the starting point is approximately



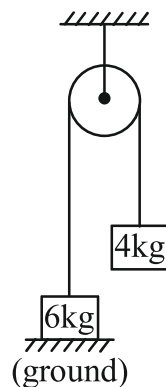
A) 40s

B) 30s

C) 32.5s

D) 36.2s

6. Find the ratio of Tension force in string to normal reaction from ground for the system shown.



A) 1 : 3

B) 2 : 1

C) 2 : 3

D) Cannot be determined

7. A point sized object is taken below the surface of earth. As the object moves downward, the gravitational force between the earth and object _____.
- A) Increases and becomes infinite at the center of Earth.
 - B) Increases but becomes zero at the center of Earth.
 - C) Decreases
 - D) First decreases to certain depth and then increases till center of Earth
8. A car is moving with speed 72 km/hr on a horizontal surface. Its brakes are applied which produces a constant retardation of 4 m/s^2 . Find the distance travelled by the car in 6 seconds.
- A) 48 m
 - B) 50 m
 - C) 52 m
 - D) 46 m
9. A ball projected vertically upward covers equal distance in 3rd and 6th second of its motion. Find the speed with which the ball is projected. ($g = 10 \text{ m/s}^2$)
- A) 40 m/s
 - B) 50 m/s
 - C) 100 m/s
 - D) 60 m/s
10. A block of mass ' m ' is kept on the surface of Earth (mass of Earth is M). If we say the gravitational force (mg) acting on the block to be action, then choose the correct statement about the reaction. (Action-Reaction pair)
- A) Reaction force acts on the block in upward direction.
 - B) Reaction force of magnitude Mg acts at the center of earth.
 - C) Reaction force of magnitude mg acts at the center of earth.
 - D) Gravitational force has no reaction.

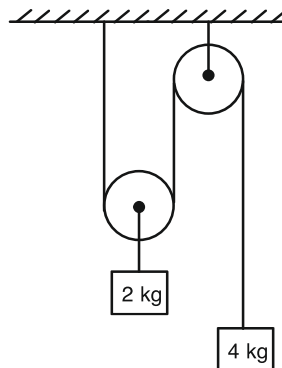
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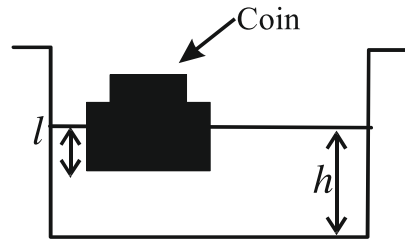
11. Mark the correct statement(s) regarding a body moving in a straight line
- A) The body slows down if its acceleration is negative
- B) The body speeds up if its acceleration is positive
- C) The body may slow down if its acceleration is positive
- D) The body may speed up if its acceleration is negative
12. For the figure shown, choose the correct option(s) after the system is released from rest.

$$(g = 10 \text{ m/s}^2)$$

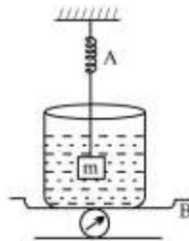


- A) Magnitude of acceleration of 2kg Block is $20/3 \text{ m/s}^2$
- B) Magnitude of acceleration of 4kg Block is $10/3 \text{ m/s}^2$
- C) Tension in thread joining 4kg Block is $40/3 \text{ N}$
- D) Tension in thread joining 2kg Block is $80/3 \text{ N}$

13. A wooden block, with a coin placed on its top, floats in water as shown in figure. The distances l and h are shown there. After some time the coin falls into the water. Then



- A) l decreases
 B) l increases
 C) h increases
 D) h decreases
14. A car has a upper speed limit of 72km/hr and it can accelerate at 2 m/s^2 . It crosses a point P while moving with speed 10 m/s. The car driver wishes to reach point Q which is 600 m away from P (Along the direction of motion) in minimum time. Choose the correct statement(s).
- A) Minimum time required is 20sec.
 B) Minimum time required is 31.25 sec.
 C) Average speed for P to Q is 19.2 m/s.
 D) Average speed for P to Q is 30m/s.
15. The spring balance A reads 2 kg with a block m suspended from it. A balance B reads 5 kg when a beaker with liquid is put on the pan of the balance. The two balances are now so arranged that the hanging mass is inside the liquid in the beaker as shown in the figure in this situation, choose incorrect option(s)



- A) the balance A will read more than 2 kg
 B) the balance B will read more than 5 kg
 C) the balance A will read less than 2 kg and B will read more than 5 kg
 D) the balances A and B will read 2 kg and 5 kg respectively.

22. Bohr's Atomic model was not applicable on:
A) H B) H^+ C) He^+ D) Li^{2+}
23. Match the following : Column-I and column-II contains four entries each. Entries of column-I are to be matched with some entries of column-II. One or more than one entries of column-I may have the matching with the same entries of column-II and one entry of column-II may have one or more than one matching with entries of column-I

	Column-I		Column-II
(A)	Solid	(P)	Have a fixed volume
(B)	Liquid	(Q)	Mixture of free electrons and ions
(C)	Gas	(R)	Do not have fixed shape
(D)	Plasma	(S)	Flow easily

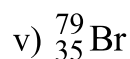
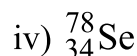
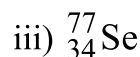
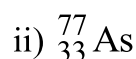
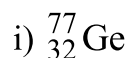
- A) A-P B-P, R, S C-R, S D-Q
B) A-P B-R, S C-P, R, S D-P
C) A-R, S B-P, R, S C-Q D-P
D) A-P B-P, S C-P, R, S D-Q
24. For any anion X^{2-} , the mass number is 16. If anion has 10 electrons, then the number of neutrons in X_2 nucleus:
A) 10 B) 14 C) 16 D) 8
25. Number of Unpaired electrons in Ni^{++} ($Z = 28$) is/are:
A) 0 B) 2 C) 4 D) 8

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26. An isotone of ${}^{76}_{32}\text{Ge}$ is:



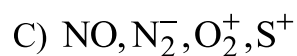
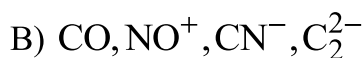
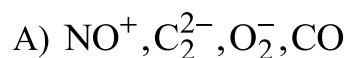
A) (ii) & (iii)

B) (i) & (ii)

C) (ii), (iii) & (v)

D) (ii), (iv) & (v)

27. Among the following groups which represents the collection of isoelectronic species?



28. Which of the following show Tyndall Effect :

A) Aqueous CuSO_4

B) Blood

C) Sulphur sol

D) Jelly

29. The correct statement/s regarding physical states of matter is/are:

A) Solids have least kinetic energy and minimum forces of attraction.

B) Gases have maximum kinetic energy and minimum forces of attraction.

C) Liquids have least kinetic energy and minimum forces of attraction.

D) Solids have least kinetic energy and maximum forces of attraction.

30. Scattering of light occurs when a beam of light is passed through
- A) Milk
 - B) Gelatin dissolved in water
 - C) Blood
 - D) Dilute solution of sodium chloride

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41. Which of the following event doesn't take place in pachytene phase of meiosis
- | | |
|-------------------------|--------------------------------------|
| A) Crossing over | B) Formation of synaptonemal complex |
| C) Chromosomal synapsis | D) Formation of chiasmata |
42. Which organelles are present in nerve cell
- | | |
|-----------------|----------------------|
| A) Mitochondria | B) Nissil's granules |
| C) Centrioles | D) Nucleus |
43. Which tissue have dead cells
- | | |
|--------------------|----------------------|
| A) Sclerenchyma | B) Phloem fibres |
| C) Xylem tracheids | D) Phloem parenchyma |
44. Analyse the following and identify the correct option given below.
- I. Chromoplasts – Contain carotene & Xanthophylls pigments other than chlorophyll
- II. Leucoplasts - Devoid of any pigments
- III. Amyloplasts - Store proteins
- IV. Aleuroplasts - Store oils and fats
- V. Elaioplasts - Store carbohydrates
- Codes
- | | |
|-------|-------|
| A) II | B) IV |
| C) V | D) I |
45. Simple squamous epithelium found in
- | | |
|----------------------------|----------------------|
| A) Lining of blood vessels | B) Endothelium |
| C) Loop of Henle | D) Bowmann's capsule |

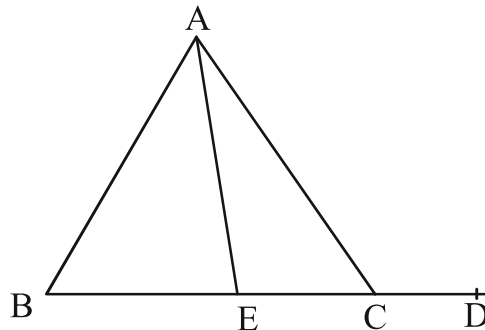
PART IV: MATHEMATICS

SECTION 1 (Maximum Marks: 30)

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46. The number of natural numbers less than 300 that are divisible by 6 but not by 9 is:
 A) 49 B) 37 C) 33 D) 16
47. In $\triangle ABC$, $\angle A = 100^\circ$, $\angle B = 50^\circ$, $AH \perp BC$ where H is on BC , BM is a median and MH is joined. Then $\angle MHC =$
 A) 15° B) 30° C) 45° D) 60°
48. The side BC of triangle ABC is produced to D . The bisector of $\angle A$ meets BC in E as shown in figure. If $\angle AEC = 40^\circ$ then the value of $\angle ABC + \angle ACD$ is



- A) 20° B) 40° C) 80° D) 160°
49. A circle of radius one is centered at the origin. Two particles start moving at the same time from the point $(1,0)$ and move around the circle in opposite direction. One of the particle moves anticlockwise with constant speed v and the other moves clockwise with constant speed $3v$. After leaving $(1,0)$, the two particles meet first at a point P , and continue until they meet next at point Q . The coordinates of the point Q are
 A) $(1,0)$ B) $(0,1)$ C) $(0,-1)$ D) $(-1,0)$
50. If the average of n different positive integers is n , then the greatest possible number among these numbers is
 A) n^2 B) $\frac{n(n-1)}{2}$ C) $\frac{n(n+1)}{2}$ D) $2n-1$

51. Find the number of positive integers $n \leq 1991$ such that 6 is a factor of $n^2 + 3n + 2$.
 A) 663 B) 1328 C) 1991 D) 995
52. Let $x = \sqrt{4 - \sqrt{7}}$ and $y = \sqrt{4 + \sqrt{7}}$.
 Find $\sqrt{\sqrt{2}(y-x) + \sqrt{\sqrt{2}(y-x) + \sqrt{\sqrt{2}(y-x) + \dots + \infty}}}$
 A) 0 B) 1 C) 2 D) 3
53. The areas of a circle, a square and an equilateral triangle are equal. If the perimeters of the circle, the square and the triangle are C, S and T respectively, which of the following holds true?
 A) $C < T < S$ B) $S < T < C$ C) $C < S < T$ D) $T < C < S$
54. $\{a_n\}$ and $\{b_n\}$ be two sequences given by
 $a_n = (x)^{\frac{1}{2^n}} + (y)^{\frac{1}{2^n}}$ and $b_n = (x)^{\frac{1}{2^n}} - (y)^{\frac{1}{2^n}}$ for all $n \in N$, then $a_1 a_2 a_3 \dots a_n$ is equal to
 A) $x - y$ B) $\frac{x+y}{b_n}$ C) $\frac{x-y}{b_n}$ D) $\frac{xy}{b_n}$
55. Sarvesh and Shivam start their new jobs on the same day. Sarvesh's schedule is 3 work-days followed by 1 rest day. Shivam's schedule is 7 work-days followed by 3 rest-days. On how many of their first 1000 days do both have rest-days on the same day?
 A) 50 B) 42 C) 2 D) 100

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56. The expression $\frac{1}{\sqrt{x+2\sqrt{x-1}}} + \frac{1}{\sqrt{x-2\sqrt{x-1}}}$ simplifies to :
- A) $\frac{2}{3-x}$ if $1 < x < 2$ B) $\frac{2}{2-x}$ if $1 < x < 2$
- C) $\frac{2\sqrt{x-1}}{(x-2)}$ if $x > 2$ D) $\frac{2\sqrt{x-1}}{x+2}$ if $x > 2$
57. If $\frac{a+b+c}{d} = \frac{b+c+d}{a} = \frac{c+d+a}{b} = \frac{d+a+b}{c} = r, r \neq -1$ then which of the following is/are correct?
- A) $a+b+c+d = 4$ B) $a+b+c = 2d$
- C) $r = 3$ D) $a = b = c = d$
58. If the equation $x^2 + px + q = 0$, the coefficient of x was incorrectly written as 17 instead of 13 . Then roots were found to be -2 and -15 . The correct roots are :
- A) -1 B) -3
- C) -5 D) -10
59. Let $a = \frac{3}{1+\sqrt{3}}$ and $b = \frac{3}{\sqrt{5}-\sqrt{2}}$, then which of the following statements are correct?
- A) $a > b$
- B) $a < b$
- C) number of integers lying between a and b is 3
- D) number of integers lying between a and b is 2

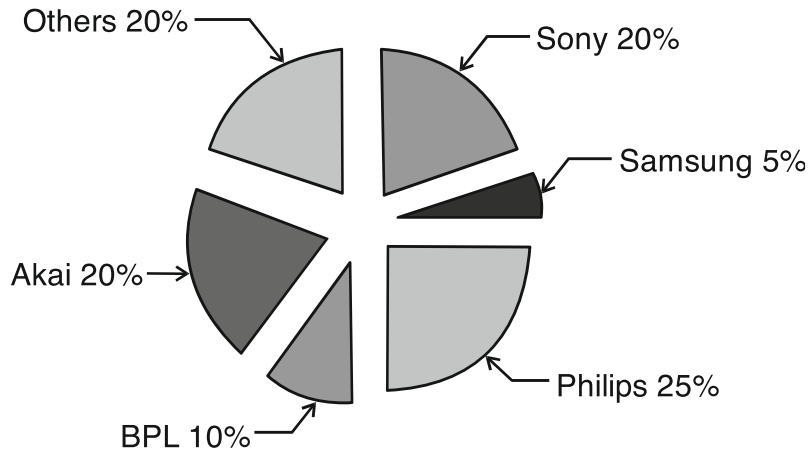
66. In a combined family Mayank and Suresh are brothers. Both have a son and a daughter each. Further information of their family is given below:
- Amar is brother-in-law of Munesh and husband of Amal's mother.
 - Munesh is unmarried son of Mayank.
 - Vaishnavi's father, Vikram is son of Seema who is mother-in-law of Sakshi.
 - Mainak's grandmother, Kavita is mother-in-law of Amar.
 - Madhuri and Munesh are children of Mayank and Vikram and Tanuja are their cousins.
 - Sakshi has two daughters and Madhuri has two sons. Juhi and Vaishnavi are siblings.

Who among the following is the father of Vaishnavi?

- | | |
|-----------|-----------|
| A) Vikram | B) Amal |
| C) Amar | D) Mainak |

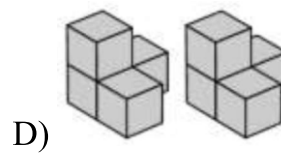
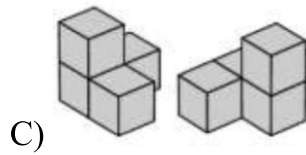
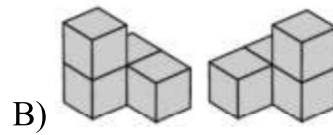
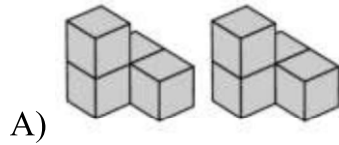
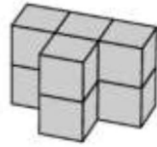
Directions for 67 - 68: Refer to Pie-chart given below to answer Question. 67, 68

Figure-Colour TV (CTV) Market in 2023 (Total 6-lakh sets)



67. Which one of the following brands of color TV sales is one-fourth of all other sales?
- | | |
|------------|------------|
| A) Samsung | B) Sony |
| C) BPL | D) Philips |
68. If next year CTV sales were to increase by 50% and the increase in Sony, Akai and BPL are 90% respectively, find the percentage change in the sales of Philips. (Assume there is no change in the sales of Samsung and others CTV.)
- | | |
|--------|--------|
| A) 20% | B) 30% |
| C) 25% | D) 50% |
69. Persons X, Y, Z and Q live in red, green, yellow or blue coloured houses placed in a sequence on a street. Z lives in a yellow house. The green house is adjacent to the blue house. X does not live adjacent to Z. The yellow house is in between the green and red houses. The colour of the house X lives in is
- | | |
|---------|------------------------------|
| A) blue | B) green |
| C) red | D) not possible to determine |

74. Which two building blocks, given in each option, can be joined together so that the object shown is created?



75. Handsome Fritz has a secret e-mail-address which is only known by four of his friends. Today he received eight emails at this address. Which of the following statements is definitely correct?

- A) Fritz has received two e-mails from each friend.
- B) Fritz cannot have received eight e-mails from one friend.
- C) Fritz has received at least one e-mail from each friend.
- D) Fritz has received at least two e-mails from one of his friends.

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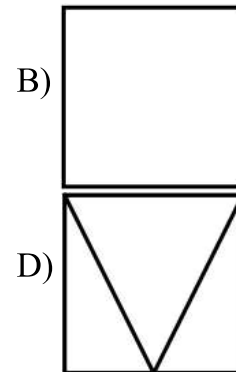
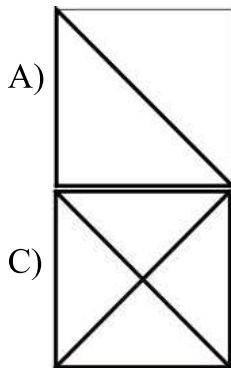
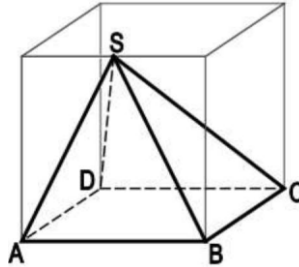
- This section contains **FIVE** questions.
- Each question has **FOUR** options (A), (B), (C) and (D). **ONE OR MORE THAN ONE** of these four option(s) is(are) correct.
- For each question, darken the bubble corresponding to all the correct option(s) in the OMR.
- For each question, marks will be awarded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

Full Marks	:	+4	if only the bubble(s) corresponding to all the correct option(s) is (are)darkened.
Partial Marks	:	+1	for darkening a bubble corresponding to each correct option , provided NO incorrect option is darkened
Zero Marks	:	0,	if none of the bubble is darkened
Negative Marks	:	-1,	in all other cases
- For example, if (A), (C) and (D) are all the correct options for a question, darkening all these three will result in **+4 marks**; darkening any one out of three will result in **+1 marks**, darkening any two e.g (A), (D) will result in **+2 marks**; and darkening (A) and (B) will result in **-1 marks**, as a wrong option is also darkened.

76. There are five teams - Paraguay, Qatar, Russia, Spain and Turkey playing in a tournament where each team plays against every other team only once. These are the following possibilities: each match can result in a draw where each team scores two points; or a team can win where it scores three points, while the losing team scores one point. Which of the following statements is/are CORRECT?
- A) If Paraguay has won all the matches and Turkey has lost all the matches and all the remaining three teams score equal points, then number of points each of the three remaining teams scored is 10.
- B) If Paraguay has won all the matches and Turkey has lost all the matches and all the remaining three teams score equal points, then number of points have each of the three remaining teams scored is 8.
- C) If all the five teams have an equal score, the number of points scored by each team is 8
- D) There is a possibility that Russia, Qatar, Spain and Paraguay scored equal number of points and Turkey scored 16 points.

77. Five girls - Seema, Reema, Neeta, Mona and Veena have total five tickets at movie theatres-Priya, Chanakya, M2K, PVR Saket and Satyam, where movies - Gangster, Khiladi, Hero, Saalaam Namaste and Iqbal are currently playing. Each girl has one movie ticket to one of the five theatres. Further information given about them:
- (i) The movie Gangster is running in Priya theatre whose ticket is not with Veena and Seema.
 - (ii) Mona had a ticket for Iqbal movie.
 - (iii) Neeta had ticket for the M2K theatre. Veena has the ticket of Satyam theatre where Khiladi is not running.
 - (iv) In PVR Saket theatre Saalaam Namaste is running.
- Which of the following statements is/are CORRECT?
- A) Priya-Mona-Gangster is a correct combination of Theatre – Girl – Movie.
 - B) PVR Saket-Seema-Saalaam Namaste is a correct combination of Theatre – Girl – Movie.
 - C) Iqbal is playing at Chanakya
 - D) Neeta had ticket for movie Khiladi
78. Five persons with names P, M, U, T and X live separately in any one of the following: A palace, a hut, a fort, a house or a hotel. Each one likes two different colours from among the following blue, black, red, yellow and green. U likes red and blue. T likes black. The person living in a palace does not like black or blue. P likes blue and red. M likes yellow. X lives in a hotel.
- Which of the following options is/are CORRECT?
- A) M lives in house
 - B) M lives in palace
 - C) M lives in fort
 - D) M does not live in hut
79. In a college, where every student follows at least one of the three teams CSK, RCB or KKR, 60% follow CSK, 82% follow RCB and 66% follow KKR.
- Which of the following options is/are CORRECT?
- A) the maximum percentage of students who follow exactly three teams is 60
 - B) the minimum percentage of students who follow exactly three teams is 26
 - C) the minimum percentage of students who follow exactly three teams is less than 10
 - D) the minimum percentage of students who follow exactly three teams is more than 10

80. While learning Engineering Drawing course at IIT Bombay, Sarvesh Mehtani came across an interesting problem: Inside the cube lattice (given picture) he could see a solid, non-see-through pyramid ABCDS with square base ABCD, whose top S is exactly in the middle of one edge of the cube. When looked at the pyramid from above, from below, from the front, from the back, from the right and from the left - which of the views given in options CAN be possible?



SPACE FOR ROUGH WORK



Sri Chaitanya

Class 9th

Answer Key

Code A

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

Q. NO.	CODE-A	Q. NO.	CODE-A	Q. NO.	CODE-A	Q. NO.	CODE-A
41	BCD	51	B	61	C	71	A
42	ABD	52	C	62	C	72	B
43	ABC	53	C	63	C	73	A
44	AD	54	C	64	B	74	A
45	ABCD	55	D	65	A	75	D
46	C	56	BC	66	A	76	BC
47	B	57	CD	67	B	77	BCD
48	C	58	BD	68	A	78	BD
49	D	59	BD	69	A	79	AC
50	C	60	A	70	D	80	ABD