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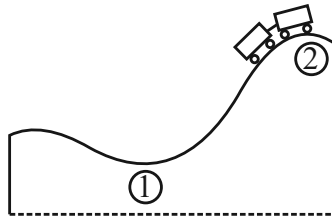
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



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SECTION-A : PHYSICS

This section contains **11 Multiple Choice Questions**. Each question has four choices (1), (2), (3) and (4) out of which **ONLY ONE** is correct.

- Tides are caused by _____.
 (1) Gravitational pull of earth. (2) Movement of large ships.
 (3) Gravitational pull of moon (4) None of these
- Choose the incorrect option.
 (1) Car tire - Road - Friction force (2) Iron Magnet - Magnetic force
 (3) Floating boats - Buoyant force (4) Ships - Spring force
- If a person stands 3m. in front of a mirror, what is the distance between him & his image?
 (1) 3 m (2) 6 m
 (3) 1.5 m (4) 9 m
- A roller coaster is shown in figure, at points 1 and 2. At what point kinetic energy is maximum?



- Point 1 (2) Point 2
 (3) Both Point 1 and 2 (4) None of these
- The gravitational pull of moon is _____ of that of Earth.
 (1)  (2) 
 (3)  (4) 
- The unit of power is _____.
 (1) Watt per second (2) Joule
 (3) Kilojoule (4) Joule per second
- Motion of simple pendulum is _____.
 (1) Non-uniform (2) Uniform
 (3) Rotational (4) None of these
- A force of 20N is pushing an object 15 m. in the direction of the force. How much work is done?
 (1) +300 J (2) +300 erg
 (3) -300 J (4) -300 erg

SECTION-B : CHEMISTRY

This section contains **11 Multiple Choice Questions**. Each question has four choices (1), (2), (3) and (4) out of which **ONLY ONE** is correct.

12. On heating a substance the movement of particles
- (1) Becomes faster (2) Becomes slower
(3) Remains the same (4) Becomes still
13. _____ in soil is the fertile component.
- (1) Gravel (2) Humus
(3) Moisture (4) Air
14. Which of the following is lighter than liquid water?
- (1) Copper (2) Glass
(3) Ice (4) Iron
15. Hand picking method is effective in
- (1) Gaseous mixture (2) Solid mixture
(3) Liquid mixture (4) All of the above
16. Name the small particles of which a matter is made up of.
- (1) Patterns (2) Substances
(3) Molecules (4) Gases
17. The cloth made of stem fibres of flax is known as
- (1) Silk cloth (2) Cotton cloth
(3) Jute cloth (4) Linen cloth
18. Which of the following is not a property of wood?
- (1) Hardness (2) Dull appearance
(3) Lustrous (4) Opaqueness
19. The process by which two immiscible liquids are separated from each other is?
- (1) Separating funnel (2) Sieving
(3) Winnowing (4) Distillation
20. Which of these natural resources of lumber for building a house?
- (1) Ores (2) Coal
(3) Trees (4) Grasses
21. How are grain seeds removed from their stalks?
- (1) Sieving (2) Winnowing
(3) Threshing (4) All of the above
22. What type of a substance is steel?
- (1) A solid - liquid heterogeneous mixture (2) A solid - solid heterogeneous mixture
(3) A solid - solid homogeneous mixture (4) A pure substance

SECTION-C : BIOLOGY

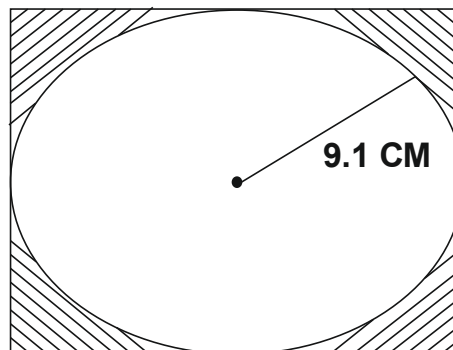
This section contains **11 Multiple Choice Questions**. Each question has four choices (1), (2), (3) and (4) out of which **ONLY ONE** is correct.

23. Which of the following is/are terrestrial habitats ?
(1) Forests (2) Grassland
(3) Desert (4) All of these
24. Amit noticed that his potted plant was not growing healthily. She put few earthworms in the pot. After a few weeks, she noticed that her plants looked healthier. What could be the possible reason for this ?
(1) The earthworms ate up the pest in the soil
(2) The earthworms helped the plant to make in water
(3) The earthworm allowed the plant to make food faster
(4) The earthworm increased the air and nutrient content of the soil.
25. Gas needed for decomposition of organic matter is :-
(1) Carbondioxide (2) Water vapour
(3) Oxygen (4) Nitrogen
26. Which of the following disease are water borne
(1) Typhoid & AIDS (2) Cholera and small pox
(3) Amoebic dysentery and malaria (4) Diarrhoea and jaundice
27. Which of the following parts of a cactus plant performs photosynthesis
(1) Spine (2) Stem
(3) Roots (4) Leaves
28. The pyramid of number in grassland ecosystem is :-
(1) Linear (2) Inverted
(3) Up right (4) None of these
29. Energy flow through an ecosystem differ form nutrient flow in that :-
(1) Nutrient flow in linear (2) Energy flow is cyclical
(3) Energy flow is linear (4) None of these
30. When we eat spinach, we eat which part of the plant :-
(1) Roots (2) Leaves
(3) Fruit (4) Stem
31. Which of the following causes influenza ?
(1) Virus (2) Algae
(3) Bacteria (4) Fungi
32. Which one of the following grows under the ground ?
(1) Sugarcane (2) Potato
(3) Ginger (4) Both 2 & 3
33. Lack of vitamin C in the food causes the disease :-
(1) Beriberi (2) Diarrhoea
(3) Goitre (4) Scurvy

SECTION-D : MATHEMATICS

This section contains **25 Multiple Choice Questions**. Each question has four choices (1), (2), (3) and (4) out of which **ONLY ONE** is correct.

34. Find the approximate value of $\frac{1+\sqrt{0.01}}{1-\sqrt{0.01}}$
- (1) 0.9 (2) 1.72
(3) 1.22 (4) 1.34
35. What should be multiplied by (-12) in order to get 180 ?
- (1) 15 (2) -15
(3) 16 (4) -16
36. A regular polygon having seven sides is called –
- (1) Pentagon (2) Septagon
(3) Heptagon (4) Hexagon
37. What is the breadth of a rectangular sheet of paper of perimeter 100 cm and length 35 cm ?
- (1) 35 cm (2) 20 cm
(3) 15 cm (4) 50 cm
38. The sum of two integers is 62. If one of the integers is -48. Find the other
- (1) 14 (2) -14
(3) -110 (4) 110
39. Evaluate $\sqrt{41-\sqrt{21+\sqrt{19-\sqrt{9}}}}$
- (1) 6 (2) 8
(3) 5 (4) 7
40. Add : 72m 50cm + 15m 75cm
- (1) 88m 25cm (2) 77m 25cm
(3) 90m 25cm (4) 78m 25cm
41. Find the dividend when divisor = 18, quotient = 35 and remainder = 6
- (1) 800 (2) 636
(3) 738 (4) 678
42. Find the difference between the perimeter of the square and the circle.



- (1) 57.2 cm (2) 15.6 cm
(3) 72.8 cm (4) 52.7 cm

43. Which is the largest chord ?
- (1) Radius (2) Arc
(3) Segment (4) Diameter

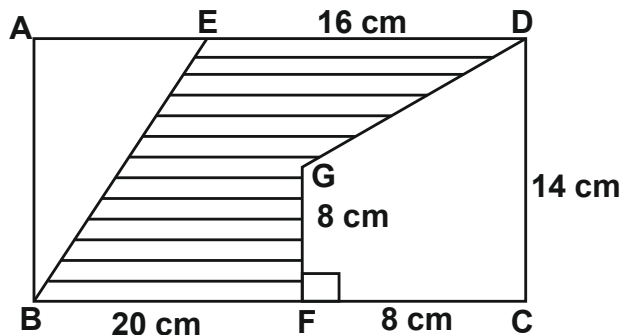
44. Find the value of x.

$$15\frac{x}{6} + 18\frac{2}{3} = 34\frac{1}{2}$$

- (1) 3 (2) 4
(3) 5 (4) 1
45. The surface of which of following does not represent a plane ?
- (1) A book (2) Wall
(3) Floor of your room (4) A foot ball
46. The sum of two integers is -26. If one of them is 26, then the other is -
- (1) -52 (2) 50
(3) -50 (4) -48

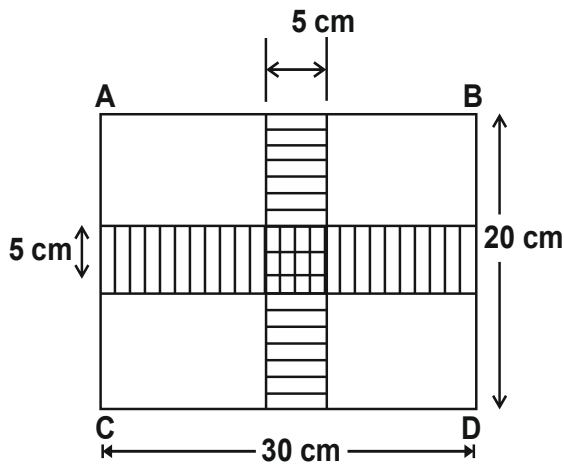
47. ABCD is a rectangle, ED = 16 cm, BF = 20 cm, FG = FC = 8 cm, CD = 14 cm and FG is perpendicular to BC.

Find the area of the shaded region (in cm²)

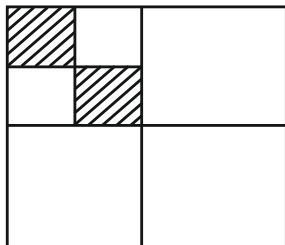


- (1) 320 (2) 325
(3) 220 (4) 225
48. A shopkeeper sold 55.360 kg of rice on a day. On the next day he sold 43.250 kg of rice. On the third day he sold 60.500 kg of rice. How much of rice in all did the shopkeeper sell ?
- (1) 159.11 kg (2) 159 kg
(3) 160 kg (4) 159.011 kg
49. The smallest number which when divided by 30, 45, 75, 60 leaves a remainder of 21, 36, 66 and 51 respectively is -
- (1) 900 (2) 909
(3) 891 (4) None of these

50. ABCD is a rectangle, where $CD = 30$ cm, $BC = 20$ cm,
Find the area of shaded part (in cm^2)


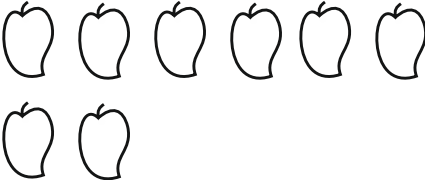

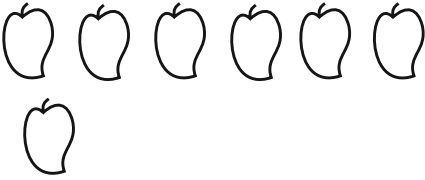



- (1) 200 cm^2 (2) 225 cm^2
 (3) 275 cm^2 (4) 250 cm^2
51. The sum of three prime numbers is 100. If one of them exceeds another by 36, then one of the numbers is –
- (1) 7 (2) 29
 (3) 41 (4) 67
52. The Fraction representing the shaded part of the given square is



- (1) $\frac{2}{7}$ (2) $\frac{2}{4}$
 (3) $\frac{2}{8}$ (4) $\frac{1}{8}$
53. The smallest possible decimal fraction upto 4 decimal places is –
- (1) 0.1011 (2) 0.1110
 (3) 0.0001 (4) 0.0011

54. **Direction :-**The following is a pictograph showing the sale of mangoes in 4 week in a local shop.

Week	Sale of mangoes  = 20 kg mangoes
1st Week	
2nd Week	
3rd Week	
4th Week	

What is the total sale of mangoes in the month?

- (1) 420 kg (2) 240 kg
(3) 480 kg (4) 400 kg

55. The area of square field is 36m^2 . A path of uniform width is laid around and outside of it. If the area of the path is 28m^2 , then find the width of the path (in m)

- (1) 1 (2) 4
(3) 6 (4) 2

56. An isosceles triangle has a measure of 'p' units for its equal sides and 'q' units for its unequal side. What is its perimeter ?

- (1) $2(p + q)$ units (2) $2p + q$ units
(3) $2q + p$ units (4) $2(q + p)$ units

57. Temperature at the foot of a mountain is $+5^\circ\text{C}$. It fell down by 10°C at the top of the mountain. The temperature recorded on the top is

- (1) $+15^\circ\text{C}$ (2) -15°C
(3) $+5^\circ\text{C}$ (4) -5°C

58. Simplify the following

$$617 + 6.017 + 0.617 + 6.0017 =$$

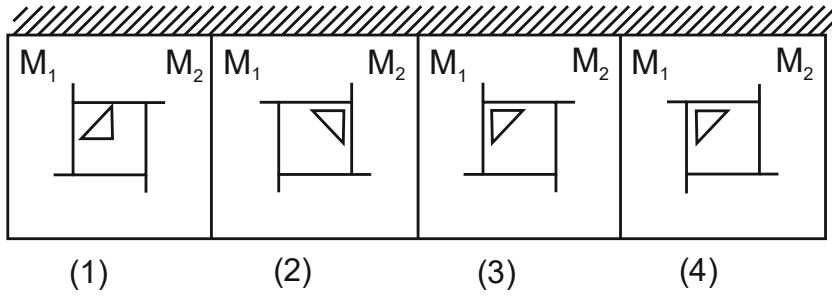
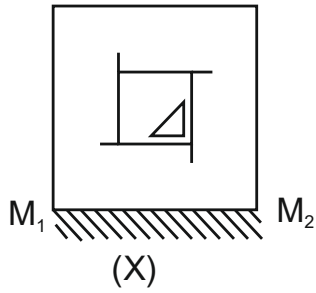
- (1) 6.2963 (2) 62.965
(3) 629.6357 (4) None of these

SECTION-E : MENTALABILITY

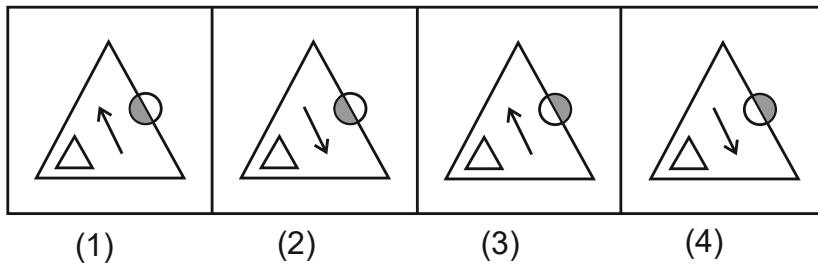
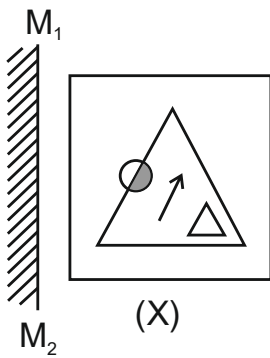
This section contains **22 Multiple Choice Questions**. Each question has four choices (1), (2), (3) and (4) out of which **ONLY ONE** is correct.

59. Arrange the following words according to dictionary arrangement :
1. Epitaxy 2. Episode 3. Epigene 4. Epitome 5. Epilogue
- (1) 1, 2, 3, 4, 5 (2) 3, 2, 5, 4, 1
(3) 3, 5, 2, 1, 4 (4) 5, 4, 2, 1, 3
60. How many such pairs of letters are there in the word CORPORATE each of which has as many letters in the same sequence between them in the word as in the English alphabet ?
- (1) None (2) One
(3) Two (4) Three
61. In a certain code, TELEPHONE is written as ENOHPELET. How is ALIGATOR written in that code ?
- (1) ROTAGILA (2) ROTAGAIL
(3) ROTAGILE (4) ROTEGILA
62. If E = 5 and HOTEL = 12, how will you code LAMB ?
- (1) 7 (2) 10
(3) 26 (4) 28
63. If, in a code, MIND becomes KGLB and ARGUE becomes YPESC, then what will DIAGRAM be in that code ?
- (1) BGYEPYK (2) BGYPYEK
(3) GLPEYKB (4) LKBGYPK
64. If in a certain code, TWENTY is written as 863985 and ELEVEN is written as 323039, how is TWELVE written in that code ?
- (1) 863203 (2) 863584
(3) 863903 (4) 863063
65. Manick walked 40 metres towards North, took a left turn and walked 20 metres. He again took a left turn and walked 40 metres. How far and in which direction is he from the starting point ?
- (1) 20 metres East (2) 20 metres North
(3) 20 metres South (4) None of these
66. Amit walked 30 metres towards East, took a right turn and walked 40 metres. Then he took a left turn and walked 30 metres. In which direction is he now from the starting point?
- (1) North-east (2) East
(3) South-east (4) South

67.



68.



69. Find the missing number

392, 252, 150, ?, 36, 12

(1) 80

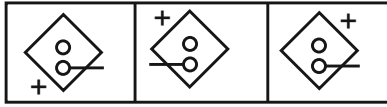
(2) 84

(3) 132

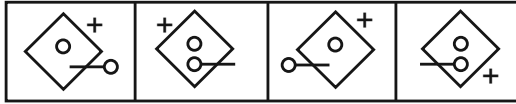
(4) 148

70. Find the next figure -

Problem Figures



Answer Figures



A

B

C

D

(1) A

(2) B

(3) C

(4) D

71. Find the wrong term

DOU, EPV, FQW, GRX, HTY, ITZ

(1) EPV

(2) FQW

(3) GRX

(4) HTY

72. Five persons were playing card game sitting in a circle all facing the centre. Mukund was to the immediate left of Rajesh, Vijay was to the right of Anil and between Anil and Nagesh. Who was to the immediate right of Nagesh?

(1) Vijay

(2) Rajesh

(3) Anil

(4) Mukund

Direction for Q 73 to Q 75

Read the following information and answer the questions that follow:

(i) Six friend A, B, C, D, E and F are sitting in a closed circle facing the centre.

(ii) E is to the immediate left of D.

(iii) C is exactly between A and B.

(iv) F is between E and A.

73. Who is to the immediate left of B?

(1) A

(2) C

(3) D

(4) E

74. Who is to the immediate right of C?

(1) A

(2) B

(3) D

(4) E

75. Which of the above statements is superfluous?

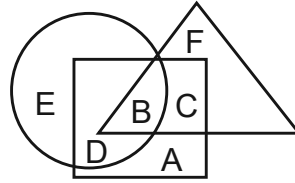
(1) (i)

(2) (ii)

(3) (iii)

(4) All are required

Directions : (76 to 78) In the following diagram, three classes of population are represented by three figures. The triangle represents the school teachers, the square represents the married persons and the circle represents the persons living in joint families.



76. Persons who live in joint families, are unmarried and who do not work as school teachers are represented by
- (1) C (2) B
(3) E (4) D
77. Married teachers living in joint families are represented by
- (1) C (2) B
(3) D (4) A
78. School teachers who are married but do not live in joint families are represented by
- (1) C (2) F
(3) A (4) D
79. Which sequence of letters when placed at the blanks one after will complete the given letter series?
bc _ b _ c _ b _ ccb
- (1) cbc (2) bbcb
(3) cbbc (4) bcbc
80. Which of the following is the water image of **96FSH52**
- (1) 96F2H25 (2) 69F2H25
(3) 96F2H25 (4) 69F2H25

ANSWER KEY

PHY	Q. No	1	2	3	4	5	6	7	8	9	10	11	
	Ans.	3	4	2	1	3	4	1	1	2	1	1	
CHEM	Q. No	12	13	14	15	16	17	18	19	20	21	22	
	Ans.	1	2	3	2	3	4	3	1	3	3	3	
BIO	Q. No	23	24	25	26	27	28	29	30	31	32	33	
	Ans.	4	4	3	4	2	3	3	2	1	4	4	
MATHS	Q. No	34	35	36	37	38	39	40	41	42	43	44	
	Ans.	3	2	3	3	4	1	1	2	2	4	3	
	Q. No	45	46	47	48	49	50	51	52	53	54	55	
	Ans.	4	1	3	4	3	2	4	4	3	3	1	
	Q. No	56	57	58									
	Ans.	2	4	3									
MAT	Q. No	59	60	61	62	63	64	65	66	67	68	69	
	Ans.	3	3	1	1	1	1	4	3	2	1	1	
	Q. No	70	71	72	73	74	75	76	77	78	79	80	
	Ans.	4	4	4	3	1	4	3	2	1	1	3	