



Sample Paper

For Class - IX

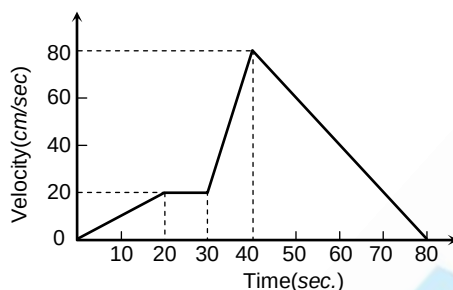
Time: 90 Min.		TEST PATTERN		Max. Marks: 70	
Total Questions	Subject	Type	Marks Criteria (Total 45 Marks)		
70	Physics (1-10), Chemistry (11-20), Biology (21-30) Mathematics (31-45), Social Science (46-55) Mental Ability (56-65), English (66-70)	Objective Question	Correct (+1) Mark	Incorrect (−0.25) Mark	

1. PHYSICS

Straight Objective

This section contains 10 questions. Each question has 4 choices (A), (B), (C) and (D) for its answer, out of which **ONLY ONE** is correct.

1. If a car covers $2/5^{\text{th}}$ of the total distance with v_1 speed and $3/5^{\text{th}}$ distance with v_2 then average speed is
(A) $\frac{1}{2}\sqrt{v_1 v_2}$ (B) $\frac{v_1 + v_2}{2}$ (C) $\frac{2v_1 v_2}{v_1 + v_2}$ (D) $\frac{5v_1 v_2}{3v_1 + 2v_2}$
2. The $v-t$ graph of a moving object is given in figure. The maximum acceleration is



- (A) 1 cm/sec^2 (B) 2 cm/sec^2 (C) 3 cm/sec^2 (D) 6 cm/sec^2
3. A machine gun fires 20 bullets per second into a target. Each bullet weighs 150 gms and has a speed of 800 m/sec. Find the force necessary to hold the gun in position
(A) 800 N (B) 1000 N (C) 1200 N (D) 2400 N
4. If a force of 250 N act on body, the momentum acquired is 125 kg-m/s. What is the period for which force acts on the body
(A) 0.5 sec (B) 0.2 sec (C) 0.4 sec (D) 0.25 sec
5. Which of the following is vector quantity ?
(A) speed (B) distance (C) velocity (D) time
6. SI unit of acceleration is
(A) m/s (B) m/s^2 (C) m (D) ms^2
7. The net force acting on a body of mass 1 kg moving with a uniform velocity of 5 m/s is :
(A) 5 N. (B) 0.2 N. (C) 0 (D) None of these.
8. The weight of an object in the coal mine, sea level, at the top of the mountain are W_1 , W_2 and W_3 respectively, then
(A) $W_1 < W_2 > W_3$ (B) $W_1 = W_2 = W_3$ (C) $W_1 < W_2 < W_3$ (D) $W_1 > W_2 > W_3$
9. The mass of your car is 1500 kg. It is initially moving with a velocity of 30 m/s, and then within a time duration of 50 sec, it moves with a velocity of 80 m/s. Calculate the force produced by your car
(A) 1500N (B) 2000N (C) 4000N. (D) 5000N
10. A force of 5 N acts on a body of weight 9.8 N. What is the acceleration produced in m/s^2
(A) 49.00 (B) 5.00 (C) 1.46 (D) 0.51

2. CHEMISTRY

Straight Objective Type

This section contains 10 questions. Each question has 4 choices (A), (B), (C) and (D) for its answer, out of which **ONLY ONE** is correct.

11. Which of the following is not an example of matter?
(A) Air (B) Feeling of cold (C) Dust (D) None of these
12. Which of the following is rigid?
(A) Solid (B) Liquid (C) Gas (D) Both (B) and (C)

13. Which of the following will respond to sublimation
(A) Common salt (B) Sugar (C) Camphor (D) Potassium nitrate
14. Latent heat of vaporisation of water is
(A) 2.25×10^2 J/Kg (B) 22.5×10^5 J/Kg (C) 3.34×10^5 J/Kg (D) 33.4×10^2 J/Kg
15. Boiling point of alcohol is 78°C . What will be the temperature in Kelvin scale?
(A) 373 K (B) 351 K (C) 375 K (D) 78 K
16. One atmosphere is equal to
(A) 1.01×10^5 Pa (B) 3.46×10^4 Pa (C) 1 Pa (D) 10 Pa
17. Which of the following is not a compound?
(A) Marble (B) Washing soda (C) Quick lime (D) Brass
18. The particle size of solute in true solution is of the order of
(A) 10^{-6} m (B) 10^{-7} m (C) 10^{-8} m (D) 10^{-9} m
19. Fog is an example of
(A) Foam (B) Emulsion (C) Aerosol (D) Gel
20. 100 gm of an aqueous solution of sugar contains 40% sugar by mass. How much water should be evaporated to get 50% sugar solution by mass?
(A) 10 gm (B) 20 gm (C) 0.0 gm (D) 40 gm

3. BIOLOGY

Straight Objective Type

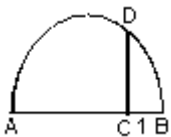
This section contains 10 questions. Each question has 4 choices (A), (B), (C) and (D) for its answer, out of which **ONLY ONE** is correct.

21. Areolar connective tissue is found :
(A) Around blood vessels & nerves (B) Between skin & muscles
(C) In the bone marrow (D) All of the above
22. Name the stain which is commonly used to study plant cells.
(A) Methylene blue (B) Cotton blue (C) Safranin (D) Acetocarmine
23. Intestine absorbs the digested food materials what type of epithelial cells are responsible for that?
(A) Stratified squamous epithelium (B) Columnar epithelium
(C) Spindle fibres (D) Cuboidal epithelium
24. A person met with an accident in which two long bones of hand were dislocated. Which among the following may be the possible reason ?
(A) Tendon break (B) Break of skeletal muscle
(C) Ligament break (D) Areolar tissue break
25. Bone matrix is rich in
(A) fluoride & calcium (B) Calcium & phosphorus
(C) calcium & potassium (D) phosphorus & potassium
26. In binomial nomenclature first name refers to
(A) Order (B) Class (C) Genus (D) Species
27. How many subkingdom are divided in plants by Eichler
(A) 1 (B) 2 (C) 3 (D) 4
28. The Bryophyta lack true
(A) Root (B) Stem (C) leaves (D) All
29. Gymnosperms are characterized by
(A) Winged seed (B) Naked seed (C) Multiple sperm (D) Mature sperm
30. Which of the following belong to division Pteridophyta
(A) Funaria (B) Cycas (C) Riccia (D) Fern

4. MATHEMATICS

Straight Objective Type

This section contains 15 questions. Each question has 4 choices (A), (B), (C) and (D) for its answer, out of which **ONLY ONE** is correct.

31. Which of the following pair is coprime.
(A) (7,8) (B) (13,7) (C) (8,15) (D) All of these
32. Decimal form of $\frac{37}{300}$ is :
(A) $0.\overline{123}$ (B) $0.1\overline{23}$ (C) $0.12\overline{3}$ (D) None of these
33. Solve : $4.\overline{26} + 4.2\overline{6} =$
(A) $8.\overline{529}$ (B) $8.52\overline{9}$ (C) $8.5\overline{29}$ (D) 8.529
34. The decimal expansion of $\frac{6}{1250}$ will terminate after how many place of decimal?
(A) 3 (B) 4 (C) 5 (D) 1
35. Which of the following rational numbers have terminating decimal expansion ?
(A) $\frac{11}{7000}$ (B) $\frac{91}{21000}$ (C) $\frac{343}{2^3 5^3 7^3}$ (D) None of these
36. In the given figure AB is diameter and AC = 4 unit and BC = 1 unit and $CD \perp AB$ then find value of CD.
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- (A) 4 (B) 8 (C) 2 (D) 1
37. The sum of any two irrational numbers is
(A) always an irrational number (B) always a rational number
(C) always an integer (D) sometimes rational, sometimes irrational
38. Which of the following number is irrational ?
(A) $\sqrt{16} - 4$ (B) $(3 - \sqrt{3})(3 + \sqrt{3})$
(C) $\sqrt{5} + 3$ (D) $-\sqrt{25}$
39. If x is not a perfect square and $\sqrt{x}$ is an irrational number, then x is :
(A) rational (B) irrational (C) 0 (D) positive real
40. Between two rational numbers
(A) there is no rational number
(B) there is exactly one rational number
(C) there are infinitely many rational numbers
(D) there are only rational numbers and no irrational numbers
41. X=3 and Y=-2 is a solution of the equation $4px-3y=12$, then the value of p is
(A) 0 (B) $\frac{1}{2}$ (C) 2 (D) 3
42. Which of the following is the equation of a line parallel to y-axis?
(A) $Y = 0$ (B) $X + Y = Z$ (C) $Y = X$ (D) $X = a$

43. If X represents the age of father and Y represents the present age of the son, then the statement for 'present age of father is 5 more than 6 times the age of the son' in terms of mathematical equation is
 (A) $6X + Y = 5$ (B) $X = 6Y + 5$ (C) $X + 6Y = 5$ (D) $X - 6 = 5$
44. Any point of the form (a, -a) always lie on the graph of the equation
 (A) $x = -a$ (B) $y = a$ (C) $y = x$ (D) $x + y = 0$
45. The graph of the equation $2x + 3y = 6$ cuts the x-axis at the point
 (A) (0, 3) (B) (3, 0) (C) (2, 0) (D) (0, 2)

5. SOCIAL SCIENCE

Straight Objective Type

This section contains 10 questions. Each question has 4 choices (A), (B), (C) and (D) for its answer, out of which **ONLY ONE** is correct.

46. The Eastern most longitude of India is-
 (A) $97^{\circ} 25'E$ (B) $68^{\circ} 7'E$ (C) $77^{\circ} 6'E$ (D) $82^{\circ} 32'E$
47. A neighbouring country but not a part of Indian subcontinent is
 (A) Pakistan (B) Bangladesh (C) Nepal (D) China
48. Which of the following is a neighbouring state of China-
 (A) Himachal Pradesh (B) Uttaranchal (C) Sikkim (D) All of the above
49. Surplus produce in the market is supplied by
 (A) small and landless farmers (B) small and medium farmers
 (C) farmers having land holdings (D) large and medium farmers
50. The major benefits of the Green Revolution were experienced mainly in
 (A) northern India. (B) southern India. (C) western India. (D) eastern India.
51. People in Palampur mainly feed their buffaloes by
 (A) Jowar. (B) gram. (C) grass. (D) leaves.
52. Small farmers borrow money for cultivation from
 (A) traders. (B) family members. (C) banks. (D) moneylenders.
53. Wages are paid to the workers in the form of cash and
 (A) benefits. (B) incentive. (C) bonus. (D) kind.
54. Most abundant factor of production is
 (A) land. (B) labour. (C) capital. (D) entrepreneur.
55. Two crops that increased India's agriculture production in the era of Green Revolution were
 (A) cereals and rice. (B) paddy and maize. (C) wheat and maize. (D) wheat and rice.

6. MENTAL ABILITY

Straight Objective Type

This section contains 10 questions. Each question has 4 choices (A), (B), (C) and (D) for its answer, out of which **ONLY ONE** is correct.

Direction (56 to 60) : Find the missing term.

56. 14, 316, 536, 764, ?
 (A) 981 (B) 1048 (C) 8110 (D) 9100
57. 12, 12.6, 18, 4.5 ?
 (A) 22.5 (B) 24 (C) 20 (D) 8

58. 2,7,24,77,?
(A) 230 (B) 238 (C) 240 (D) 242
59. 1, 2, 3, 5, 8, 13, ?
(A) 22 (B) 20 (C) 21 (D) 17
60. 6834,6151,5536,4983, ?
(A) 4983 (B) 4485 (C) 4480 (D) 4442

Directions : (61 to 65) Find the wrong terms.

61. MDH, NFE, OHC, PED, QBF
(A) MDH (B) NFE (C) OHC (D) QBF
62. 5, 8, 11, 14, 16, 20
(A) 11 (B) 14 (C) 20 (D) 16
63. G 4 T, J 10 R, M 20 P, P 43 N, S 90 L
(A) G 4 T (B) J 10 R (C) M 20 P (D) P 43 N
64. ZLA, BMY, CNW, FOU, HPS
(A) ZLA (B) BMY (C) FOU (D) CNW
65. 3, 1, 4, 5, 10, 14, 23
(A) 5 (B) 10 (C) 14 (D) 23

7. ENGLISH

Straight Objective Type

This section contains 05 questions. Each question has 4 choices (A), (B), (C) and (D) for its answer, out of which **ONLY ONE** is correct.

Fill in the blanks with the correct answer selecting from the given options.

66. She just the telegram.
(A) did, receive (B) had, received (C) was, receiving (D) has, received
67. He from Mumbai on Monday.
(A) return (B) returns (C) returned (D) was returning
68. A large number of voters still along straight party line.
(A) vote (B) votes (C) voted (D) is voting
69. Few left alive after the flood.
(A) were (B) is (C) may (D) have
70. We have invited friends.
(A) any (B) both (C) some (D) neither

CLASS : IX
STAR SAMPLE PAPER

ANSWER KEY

Ques.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans.	D	D	D	A	C	B	C	A	A	B	B	A	C	B	B
Ques.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Ans.	A	D	D	C	B	C	C	C	D	A	A	D	A	D	B
Ques.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Ans.	D	C	C	B	C	C	D	C	D	C	B	D	B	D	B
Ques.	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Ans.	A	D	C	D	A	A	D	D	A	D	D	A	B	C	B
Ques.	61	62	63	64	65	66	67	68	69	70					
Ans.	C	D	B	D	B	D	C	A	A	C					