

Sample Questions for



CLASSROOM CONTACT PROGRAMME

PRE-NURTURE & CAREER FOUNDATION : CLASS-VII
(FOR VII to VIII MOVING STUDENTS)



ALLEN Corporate Office: "SANKALP" CP-6, Indra Vihar, Kota (Rajasthan) INDIA 324005
Call : +91-744-2757575 | Mail : info@allen.ac.in | Website : www.allen.ac.in

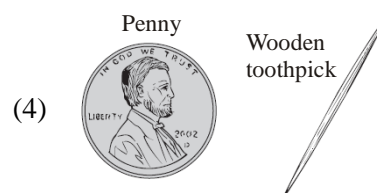
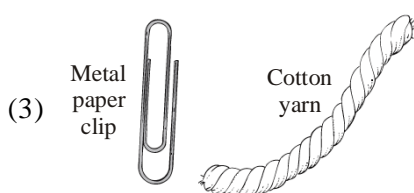
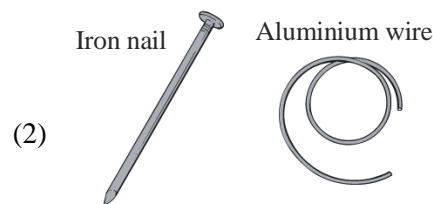
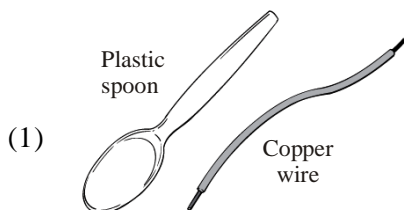
INSTRUCTIONS

Things NOT ALLOWED in EXAM HALL : Blank Paper, clipboard, log table, slide rule, calculator, camera, mobile and any electronic or electrical gadget. If you are carrying any of these then keep them at a place specified by invigilator at your own risk

1. This Booklet is your Question Paper. DO NOT break seal of Booklet until the invigilator instructs to do so.
2. Fill your TALLENTX Roll No. & Answer Sheet No. in the space provided on the cover page.
3. Carefully fill your **PAPER CODE** and present **CLASS** in space provided (**Serial No. 6 & 12**) of optical response sheet.
4. Please make sure that paper you received is of your class only.
5. Please make sure that the **Paper Code** Printed on the **Test Booklet Cover Page** and **Inner Pages** are the same. In case of discrepancy, the candidate should immediately report the matter to the Invigilator for replacement of Test Booklet.
6. The Answer Sheet is provided to you separately which is a machine readable Optical Response Sheet (ORS). You have to mark your answers in the ORS by darkening bubble, as per your answer choice, by using black or blue ball point pen.
7. After breaking the Question Paper seal, check there are **12 pages** in the booklet. This Question Paper contains 80 MCQs with 4 choices (Subjects: Physics: 15, Chemistry: 15, Biology: 15, Maths: 15 & Mental ability: 20).
8. Think wisely before darkening bubble as **there is negative marking for wrong answer**. Answer once marked by pen cannot be cancelled.
9. Marking Scheme:
 - a. If darkened bubble is RIGHT answer: 4 Marks.
 - b. If darkened bubble is WRONG answer: -1 Mark (Minus One Mark).
 - c. If no bubble is darkened in any question: No Mark.
10. If you are found involved in cheating or disturbing others, then your ORS will be cancelled.
11. Do not put any stain on ORS and hand it over back properly to the invigilator.
12. You can take along the question paper after the test is over.

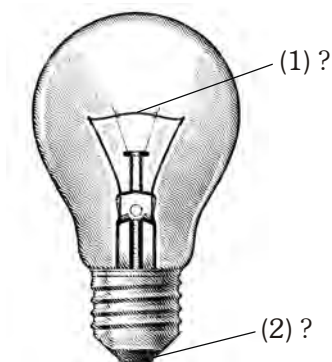
CLASS-VII

5. The law of reflection involves two light rays. What are they?
 (1) light and dark (2) reflected and refracted
 (3) incident and refracted (4) incident and reflected
6. South pole of a magnet can be identified by
 (1) Another magnet having its poles marked as North pole and South pole.
 (2) Using a magnetic material
 (3) Using an iron bar
 (4) Using iron filings
7. When a magnetic needle is suspended freely, it always aligns in which direction
 (1) Vertically upward
 (2) East–West direction
 (3) North–South direction
 (4) Sometimes east–west and sometimes North–South direction
8. Which of the following shows two objects that are both conductors of electricity?



9. Motion of which of these objects is known as periodic motion?
 (1) Aeroplane (2) Flying bird
 (3) Train (4) Pendulum
10. Which of the following is a correct relationship [C= Celsius; F= Fahrenheit]
 (1) $C = \frac{9}{5}(F - 32)$ (2) $C = \frac{5}{9}(F - 32)$
 (3) $C = \frac{9}{5}(C + 32)$ (4) $C = \frac{5}{9}(C + 32)$

11. What are the names of the pointers (1) and (2) in the following diagram?

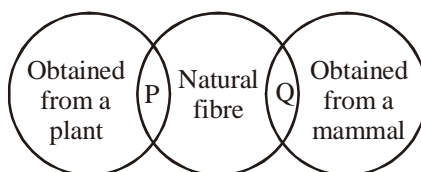


- (1) Element, filament (2) Filament, terminal
 (3) Element, holder (4) terminal, holder
12. A person covers 500 m in 10 seconds. Calculate his speed.
 (1) 500 m/s (2) 100 m/s
 (3) 50 m/s (4) 10 m/s

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.

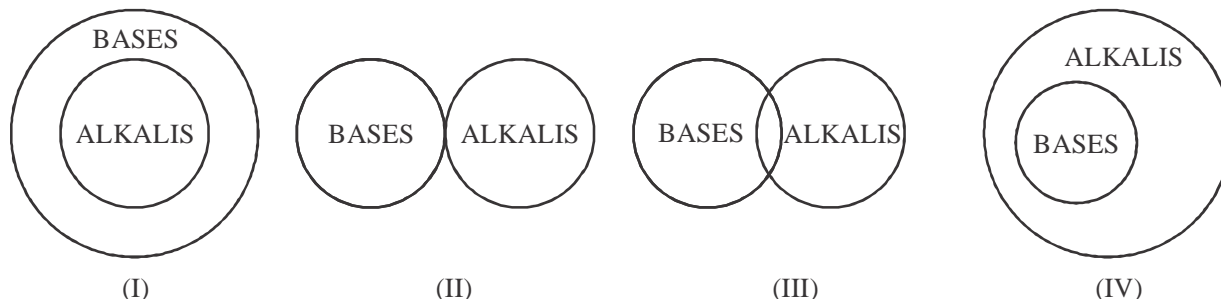
13. Refer to given Venn diagram and select the incorrect option regarding P and Q.



- (1) P is cellulosic fibre whereas Q is protein fibre.
 (2) P could be cotton, Q could be wool.
 (3) Processing of fibres P and Q may involve retting and reeling steps respectively.
 (4) Q could be obtained from the same animal repeatedly.
14. Which of the following is not a man-made change ?
 (1) Change of day and night (2) Burning of fuels
 (3) Drying of clothes (4) Tearing of a paper
15. X is present in the stomach, presence of excess of it causes indigestion, which requires a solution of baking soda to undo the effect of X. What is X?
 (1) Hydrochloric acid (2) Sulphuric acid
 (3) Caustic soda (4) Caustic potash

CLASS-VII

16. Which of the following components of air is present in the largest amount in the atmosphere?
 (1) Nitrogen (2) Oxygen (3) Water vapour (4) Carbon dioxide
17. Which of the following diagram(s) represents alkalis and bases in the correct form ?



- (1) (I) (2) (III) (3) (I) and (IV) (4) (III) and (IV)
18. Read the given statements.
 (a) Evaporation of water is a reversible change.
 (b) Burning of wood is an irreversible change.
 (c) Rusting of iron is a reversible change.
 (d) Bursting of cracker is a fast change.
 (e) Formation of petrol is a slow change.
 (f) Baking of dough into bread is a reversible change.
 Which of the above statements are true?
 (1) a, b, c, d (2) a, b, d, e (3) b, c, d, e (4) b, d, e, f
19. Your mother goes to buy a pashmina shawl from the market. The shopkeeper takes out a small strand of yarn from the shawl and burns it. It smells like a burning plastic, will it be a good decision to buy this shawl and why ?
 (1) Yes, as it is a characteristic of pure wool
 (2) No, as it is a characteristic of synthetic yarn
 (3) Yes, as it is a characteristic of pure silk
 (4) None of the above
20. Read the following statements carefully about “Controlling air pollution”.
 (a) Encouraging the use of CNG in vehicles.
 (b) Use of leaded petrol in vehicles.
 (c) Reducing the number of vehicles on the road.
 (d) Planting trees on roadside.
 (e) Cutting of trees to burn wood in open.
 Which of the above statements are helpful in controlling air pollution?
 (1) a, d, e (2) b, c, d (3) c, d, e (4) a, c, d
21. When iron is kept in humid air for some days, a brown substance deposits on it. This slowly corrodes the iron. This process is called :
 (1) Painting (2) Rusting (3) Galvanization (4) Condensation
22. Which of the following is correct about the sericulture?
 (1) Rearing of Llama (2) Rearing of silkworm to obtain silk
 (3) Removing fleece of sheep (4) Cleaning of wool

23. Which of these statement is correct ?
- (1) If an indicator gives a colour with an acid, it does not give a change with a base.
 - (2) If an indicator changes colour with a base, it does not change colour with an acid.
 - (3) Change of colour in an acid and a base depends on the type of the indicator.
 - (4) None of these

SECTION-C : BIOLOGY

This section contains **12 Multiple Choice Questions**. Each question has four choices (1), (2), (3) and (4) out of which **ONLY ONE** is correct.

24. Water vapour exits and CO₂ enters a leaf through the
- (1) stomata
 - (2) grana
 - (3) stroma
 - (4) photons
25. Which of the following items is not recyclable?
- (1) Plastic
 - (2) Newspaper
 - (3) Glass
 - (4) Food
26. Whales are aquatic animals which breathe through
- (1) gills
 - (2) skin
 - (3) buccal lining
 - (4) lungs
27. Why are petals of a flower colourful?
- (1) To attract pollinators
 - (2) To protect the flower during development
 - (3) To provide food for many insects
 - (4) Both (1) and (3)
28. Match the column I with that of column II.
- | <u>Column I</u> | <u>Column II</u> |
|-----------------|--------------------------------|
| (a) Premolar | (i) Tearing food |
| (b) Canine | (ii) Tentacles |
| (c) Saliva | (iii) Grinding & crushing food |
| (d) Hydra | (iv) Amylase |
- (1) a - iv, b - i, c - ii, d - iii
 - (2) a - iii, b - ii, c - i, d - iv
 - (3) a - ii, b - i, c - iv, d - iii
 - (4) a - iii, b - i, c - iv, d - ii
29. A carnivore having strong sense of smell and thick fur will likely to have:
- (1) more sweat glands and light bones
 - (2) light bones and sharp claws
 - (3) sharp claws and white fur
 - (4) white fur and more sweat glands
30. Which of the following structure covers bud and protects it?
- (1) Petal
 - (2) Sepal
 - (3) Thalamus
 - (4) Petiole
31. Which among the following are saprophytes?
- (i) Nepenthes
 - (ii) Yeast
 - (iii) Mushroom
 - (iv) Mycorrhiza
- (1) (i) & (ii)
 - (2) (ii) & (iii)
 - (3) Only (iii)
 - (4) (i) & (iv)
32. Organisms used for vermi-composting are
- (1) Tapeworms
 - (2) Round worms
 - (3) Red worms
 - (4) Hookworms

CLASS-VII

33. Human ear pinna contain/s
 (1) Bone (2) Cartilage
 (3) Both bone and cartilage (4) Only muscles
34. All organisms respond to stimuli. Which of the following describes how the plant is responding?

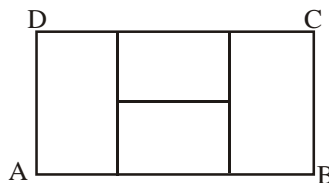


- (1) The plant is growing towards the window so it can receive more sunlight.
 (2) The plant is growing up because it is receiving adequate amounts of fertilizer.
 (3) The plant is growing at an angle because it has received more water on one side.
 (4) The plant is growing towards one side because it is too heavy to support its weight.
35. Which of the following are functions of skeletal system?
 (1) It provides points for the attachment of muscles.
 (2) Protects delicate organs of the body
 (3) Blood cells formation.
 (4) All of these

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.

36. Let x, y, z be three observations. The mean of these observation is
 (1) $\frac{x+y+z}{3}$ (2) $\frac{xyz}{3}$ (3) $\frac{x-y+z}{3}$ (4) $\frac{x \times y + z}{3}$
37. If 3 times a number is added to -7 , we get 14. What is the number ?
 (1) 6 (2) -7 (3) 7 (4) -6
38. In the picture, the rectangle ABCD is constructed from four identical rectangles. If the length of the segment BC is 1 cm, what is the length of segment AB?

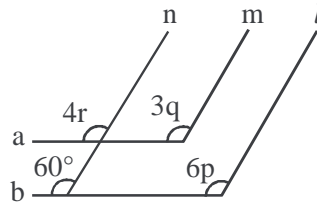


- (1) 4 cm (2) 3 cm (3) 1 cm (4) 2 cm
39. The sum of the digits of a five digit positive integers is 2. The number of such integers is
 (1) 2 (2) 3 (3) 4 (4) 5

40. For which equation $x = -3$ is a solution?

- (1) $3x - 5 = 10$ (2) $7 = -10 + x$ (3) $\frac{x}{3} + 3 = 2$ (4) $3x = 9$

41. l , m and n are parallel lines and the lines a and b are also parallel. Then, the value of p , q and r is



- (1) $p=10^\circ, q=20^\circ, r=10^\circ$ (2) $p=15^\circ, q=20^\circ, r=15^\circ$
(3) $p=10^\circ, q=20^\circ, r=15^\circ$ (4) $p=10^\circ, q=20^\circ, r=30^\circ$

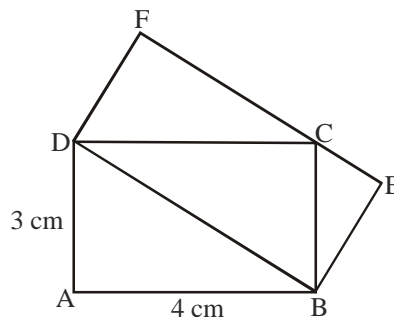
42. The additive inverse of -9 is

- (1) 0 (2) 9 (3) 1 (4) -9

43. The product of two decimals is 42.987. If one of them is 12.46. Find the other.

- (1) 3.5 (2) 3.54 (3) 3.45 (4) 3.42

44. Two rectangles, ABCD and DBEF are shown in the diagram. The length of AD is 3 cm, the length of AB is 4 cm. What is the area of rectangle DBEF?



- (1) 10 cm^2 (2) 12 cm^2 (3) 13 cm^2 (4) 14 cm^2

45. The median of the data : 3, 4, 5, 6, 7, 3, 4 is

- (1) 5 (2) 3 (3) 4 (4) 6

46. A carton contains 40 boxes of nails and each box weighs $3\frac{3}{4}$ kg. How much would a carton of nails weigh?

- (1) $\frac{32}{3}$ kg (2) 150 kg (3) 15 kg (4) 32 kg

47. If Rs.782 be divided into three parts, proportional to $\frac{1}{2} : \frac{2}{3} : \frac{3}{4}$, then the smallest part is

- (1) Rs. 182 (2) Rs.190 (3) Rs.196 (4) Rs. 204

CLASS-VII

48. The reciprocal of $\frac{-3}{4}$ when added to $\frac{4}{9}$, it gives

- (1) $\frac{7}{18}$ (2) $\frac{16}{18}$ (3) $\frac{-16}{18}$ (4) $\frac{-7}{18}$

49. $[4 - 3(3 - 4)^{-1}]^{-1}$ equals to

- (1) 1 (2) $\frac{1}{7}$ (3) 7 (4) -1

50. Vinod chooses a number that is smaller than -3, larger than -6 and even. What number did Vinod choose?

- (1) 5 (2) 4 (3) -5 (4) -4

51. Annie the ant started at the right end of the pole and crawled $\frac{2}{3}$ of its length. Bob the Beetle started at the left end of the same pole and crawled $\frac{3}{4}$ of its length. How much length of the pole are Annie and Bob now apart?

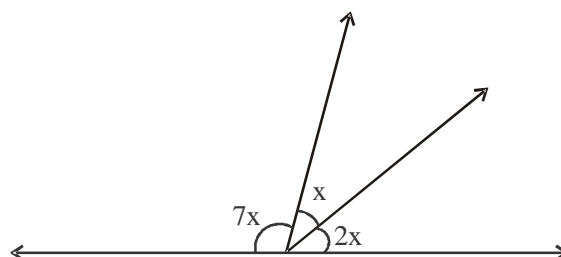


- (1) $\frac{3}{8}$ (2) $\frac{1}{12}$ (3) $\frac{5}{12}$ (4) None of these

52. What should be added to $5\frac{3}{7}$ to get 12 ?

- (1) $\frac{46}{7}$ (2) $\frac{44}{7}$ (3) $\frac{1}{7}$ (4) $\frac{2}{7}$

53. The value of $\frac{3}{2}x$ is

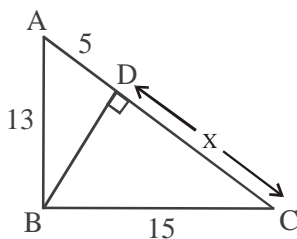


- (1) 15° (2) 20° (3) 24° (4) 27°

54. Rahul wanted to find the height of a tree in his garden. He checked the ratio of his height to his shadow's length. It was 4:1. He then measures the shadow of the tree. It was 15 feet. So what was the height of the tree?



- (1) 60 feet (2) 30 feet (3) 7.5 feet (4) 3.25 feet
55. Two angles of a triangle measures 105° and 30° . Find the measure of third angle.
- (1) 45° (2) 50° (3) 30° (4) 35°
56. Find the value of x , such that $\left(\frac{6}{7}\right)^2 \times \left(\frac{6}{7}\right)^5 = \left(\frac{6}{7}\right)^x$
- (1) 7 (2) 3 (3) -3 (4) -7
57. What is degree of the polynomial $\frac{x^5 + x^4 + 3x^2}{x^2}$
- (1) 2 (2) 3 (3) 9 (4) 13
58. In the given figure, find x .

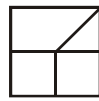


- (1) 8 (2) 9 (3) 10 (4) 11
59. What should be added to $3x^2 - 2y^2 + 5$ to get $-5x^2 + 6y^2 - 15$?
- (1) $-2x^2 + 4y^2 + 10$ (2) $-8x^2 + 4y^2 - 20$ (3) $-8x^2 + 8y^2 - 20$ (4) $-8x^2 - 8y^2 - 10$
60. Find the value of $36 \div 6 + 3 = ?$
- (1) 3 (2) 12 (3) 9 (4) 4

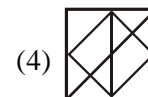
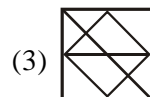
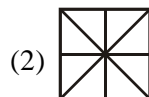
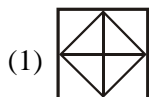
SECTION-E : MENTAL ABILITY

This section contains **20 Multiple Choice Questions**. Each question has four choices (1), (2), (3) and (4) out of which **ONLY ONE** is correct.

61. How many meaningful English words can be made from the letters EOPR using each letter only once?
 (1) None (2) One (3) Two (4) Three
62. X started to walk straight towards south. After walking 5 metre he turned to the left and walked 3 metre. After this he turned to the right and walked 5 metre. Now to which direction X is facing?
 (1) North-East (2) South (3) North (4) South-West
63. If EARTH is coded as 41590 and PALE as 2134, what is the code for PEARL?
 (1) 24153 (2) 24152 (3) 24151 (4) 24155
64. M, N, O and P are playing a game of carrom. M, O and N, P are partners. P is to the right of O who is facing north. Then, N is facing
 (1) North (2) South (3) East (4) West
65. Find the missing term
 3, 10, 29, 66, 127, ?
 (1) 164 (2) 187 (3) 216 (4) 218
66. What should come next in the following letter sequence?
 A A B A B C A B C D A B C D E A B C D
 (1) A (2) E (3) C (4) D
67. If AT = 20, BAT = 40 then CAT will be equal to
 (1) 30 (2) 50 (3) 60 (4) 70
68. How many even numbers are there in the following series of numbers , each of which is immediately preceded by an odd number, but not immediately followed by an even number ?
 5 3 4 8 9 7 1 6 5 3 2 9 8 7 3 5
 (1) Nil (2) 1 (3) 2 (4) 3
69. Find out the alternative figure which contains figure (X) as its part.



(X)

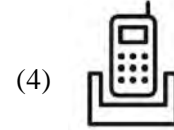
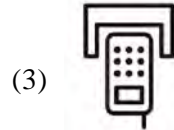
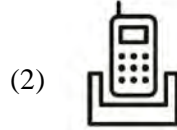
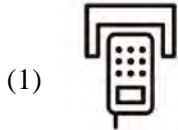


70. Ram travelled 7 km East, turned left and travelled 5 km. Next, he turned left and travelled 7 km. How far is he from starting point ?
 (1) 19 km (2) 12 km
 (3) 7 km (4) 5 km
71. Which word will come in last, if all of them are arranged alphabetically as in a dictionary order ?
 (1) Parasite (2) Party
 (3) Paste (4) Petal

72. Find the water image of given figure (X)



(X)



73. Choose the alternative which closely resembles the mirror image of the given word.

b h a n g a r h

(1) h r a g n a h d

(2) h r a g n a h d

(3) h r a g n a h b

(4) h r a g n a h d

74. Find the missing term in the following series.

4, 2, 5, 4, 7, 6, 10, 8, 14, ?

(1) 10

(2) 12

(3) 18

(4) 19

75. If the given interchanges are made in signs and numbers, which one of the four equations would be correct?

Interchanges: Sign:- '-' & '÷' Numbers:- '2' & '6'

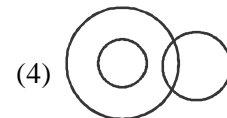
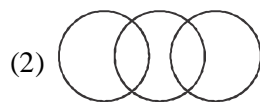
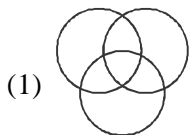
(1) $34 - 17 \times 8 + 6 \div 2 = 8$

(2) $34 - 17 \times 6 + 8 \div 2 = 6$

(3) $54 - 27 \times 27 \div 6 + 2 = 60$

(4) $54 - 27 \times 6 \div 27 + 2 = 60$

76. Which of the following diagram indicate the best relation between Spinach, Vegetable and Mango?



77. Find the mirror image of CONSTRUCTION.

(1) CONS2LBNCLION

(2) NOITCURIAT2NIOO

(3) CONS2LBNCLION

(4) NOITCURIAT2NIOO

78. If + means ÷, ÷ means -, - means ×, × means +, then $12 + 6 \div 3 - 2 \times 8 = ?$

(1) -2

(2) 2

(3) 4

(4) 8

79. Find the water image of 20584.

(1) 48205

(2) 20284

(3) 50284

(4) 48502

80. In the given question, four words have been given out of which three are alike. Find the odd term

(1) Curd

(2) Butter

(3) Oil

(4) Cheese

SPACE FOR ROUGH WORK

ANSWER KEY

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