

QUESTION PAPER (PHASE - I)

CLASS - VI

English (15)

Q1. Which of the following is a proper noun?

- (A) Hospital (B) City (C) Amazon (D) School

Q2. Identify the abstract noun in the given sentence : "Inheritance is the best policy."

- (A) Inheritance (B) Policy (C) Adverse (D) Slowly

Q3. Which of the following is an action verb?

- (A) Beautiful (B) Attacked (C) Happiness (D) Quickly

Q4. Identify the helping verb in the given sentence : She is transforming a car.

- (A) She (B) is (C) transforming (D) car

Q5. Which of the following is a personal pronoun?

- (A) She (B) Himself (C) His (D) Herself

Q6. Identify the pronoun in the given sentence : Riya made the food herself

- (A) Riya (B) made (C) food (D) herself

Q7. Which of the following sentence is in Active Voice?

- (A) The bucket was filled by me. (B) I filled the bucket.
(C) The homework was built by Shyam. (D) The letter was posted by me.

Q8. Identify the tense in the given sentence : She troubles me every evening.

- (A) Present Continuous (B) Present Perfect
(C) Simple Present (D) Simple Past

Q9. Which sentence is in the Future Continuous Tense?

- (A) I will be cooking the dinner at 8 p.m. (B) I bought a book yesterday.
(C) She has completed her work. (D) They are driving a car now.

Q10. Fill in the blank with the correct verb form:

By this time tomorrow, we _____ the project.

- (A) will complete (B) will have completed
(C) completed (D) completing

Q11. Identify the adjective in the given sentence:

The curious boy won the competition.

- (A) Boy (B) Race (C) Curious (D) Won

Q12. Which of the following is a degree of comparison in adjectives?

- (A) Positive, Comparative, Superlative (B) Noun, Pronoun, Verb
(C) Past, Present, Future (D) Active, Passive

Q13. Choose the sentence with an adjective of quantity:

- (A) She has little knowledge. (B) The red car is mine.
(C) Rohan is an intelligent boy. (D) This book is amazing.

Q14. Choose the synonym of the given word 'Begin':

- (A) Commence (B) End (C) Finish (D) Close

Q15. Choose the antonym of the given word 'Victory':

- (A) Triumph (B) Defeat (C) Success (D) Win

MATHEMATICS (15)

Q16. The sum of all prime factors of 1155.

- (A) 24 (B) 26 (C) 27 (D) 29

Q17. What fraction of straight angle is 35° ?

- (A) $\frac{1}{36}$ (B) $\frac{3}{36}$ (C) $\frac{5}{36}$ (D) $\frac{7}{36}$

Q18. How many times does the digit 8 occur between 1 and 100?

- (A) 21 (B) 20 (C) 19 (D) 18

Q19. Mean of 9, 4, 5, x, 3, 2 is 4, find x.

- (A) 4 (B) 3 (C) 2 (D) 1

Q20. Two lines are said to be perpendicular to each other when they meet at _____ angle.

- (A) 180° (B) 90° (C) 60° (D) 360°

Q21. The range of the data

5, 4, 10, 8, 18, 25, 10, 6, 4, 1, 12, 18, 2

- (A) 21 (B) 24 (C) 23 (D) 20

Q22. The area of a triangle is 6 hectares. If its altitude is 300m, the corresponding base is

- (A) 100m (B) 200m (C) 300m (D) 400m

Q23. If area of a triangle is 40cm^2 and the base is 40cm, then find the height of the triangle.

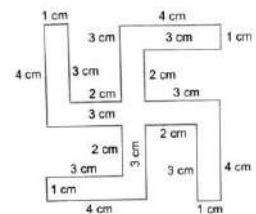
- (A) 8cm (B) 6cm (C) 2cm (D) 3cm

Q24. Find the angle between the hands of clock when it shows time as 6:30 a.m.

- (A) 15° (B) 5° (C) 7.5° (D) 30°

Q25. Find the area of the given figure.

- (A) 25 cm^2 (B) 24 cm^2
(C) 20 cm^2 (D) 30 cm^2



Q26. Find the mean of first 20 positive odd natural numbers.

- (A) 25 (B) 20 (C) 30 (D) 22

Q27. Width of bars always remain equal but _____ changes according to value.

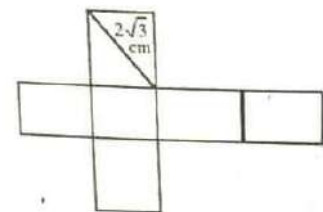
- (A) space (B) height
(C) both (A) and (B) (D) None of these

Q28. If the HCF of two numbers is 8. Which one of the following can never be their LCM?

- (A) 24 (B) 48 (C) 56 (D) 62

Q29. Find the area of figure in cm^2 , if all 6 quadrilaterals are identical squares and diagonal of a square is $2\sqrt{3}\text{ cm}$.

- (A) 36 (B) 48
(C) 56 (D) 62



Q30. Find the largest 4-digit number which is divisible by 2, 3, 5, 6, 10.

- (A) 9980 (B) 9990 (C) 9999 (D) 9900

SCIENCE – 15 MARKS (PHYSICS + CHEMISTRY + BIOLOGY)

PHYSICS (5)

Q31. If a thermometer reads 37°C in your mouth and 34°C under your arm, what does this suggest?

- (A) The arm is warmer than the mouth
- (B) The thermometer is broken
- (C) Different parts of the body have different temperatures
- (D) Both readings should be the same

Q32. You drop a stone in a well and hear the splash after 3 seconds. This practical activity is used to find

- (A) depth of the well
- (B) mass of the stone
- (C) speed of light
- (D) weight of the stone

Q33. Which tool would be best to accurately measure the diameter of a circular coin?

- (A) Measuring tape
- (B) Vernier caliper
- (C) Meter scale
- (D) Protractor

Q34. A long nail is magnetized and then cut into 3 equal parts. The teacher mixes them with 3 unmagnetized nails that look the same without using any magnet, how can a student identify the magnetized pieces?

- (A) Magnetized nails will all look shiner
- (B) Magnetized nails will attract each other at one end and repel at other end
- (C) Magnetized nails will repel each other at one end and repel at other end
- (D) Magnetized nails will only stick to wood

Q35. A student connects a battery, a switch and two Bulb B1 and B2. When the switch is turned on, only B1 glows but B2 never glows even though

- The battery is new
- Each bulb is fine
- Wires are good conductors

What is the best explanation?

- (A) B2 is connected in such a way that the wire goes around the base of bulb.
- (B) B2 has broken filament.
- (C) In series connection, electricity chooses only one bulb to pass through
- (D) A battery can glow one bulb at a time

Chemistry (5)

Q36. Which of the following is not a method for separating solids from liquids?

- (A) Filtration (B) Evaporation (C) Winnowing (D) Decantation

Q37. What is the process called X when a solid directly changes into a gas without becoming a Y ?

- (A) X = Evaporation Y = Liquid (B) X = Sublimation Y = Solid
(C) X = Evaporation Y = Solid (D) X = Sublimation Y = Liquid

Q38. Which of the following is an example of matter?

- (A) Sound (B) Heat (C) Light (D) Air

Q39. Seema places books (A), glass (B) and butter paper (C) on a table. Identify A, B, C.

- (A) A = Transparent B = Opaque C = Translucent
(B) A = Opaque B = Transparent C = Translucent
(C) A = Translucent B = Transparent C = Opaque
(D) A = Opaque B = Translucent C = Transparent

Q40. A farmer used method of separating heavier and lighter components of a mixture by wind is called and the direction of air and husk is

- (A) winnowing, opposite direction (B) winnowing, same direction
(C) handpicking, opposite direction (D) handpicking, same direction

Biology (5)

Q41. Given below are some adaptations shown by animals.

- (i) Large sized ears (ii) Thick fur on body
(iii) Waterproof fur or feathers (iv) Thick layer of fat under the skin
(v) Aestivation (vi) Hibernation

Which of these adaptations can be found in animal living in polar regions?

- (A) i, ii, iii and v (B) iii, iv, v and vi
(C) ii, iii, iv and vi (D) ii, v and vi

Q42. Read the given passage and answer the accompanying questions.

X is the part of the plant which generally grows towards light. It transports water, mineral and food to all the parts of the plant. In some plants, X is modified to prepare food, e.g., in Y. In some other plants, X grows underground and stores food e.g. in Z.

Which of the following statement is correct regarding X, Y, Z?

- (A) The main function of X is to absorb water from the soil
- (B) Y can be plant that is adapted to live in desert areas
- (C) Z can be a plant that of sweet potato
- (D) In plant Z, X changes into fruit after pollination

Q43. The leaves of a Mimosa plant close up when touched. This shows that the Mimosa plant is a living thing because it can

- (A) grow
- (B) breathe
- (C) respond
- (D) reproduce

Q44. Match column I with column II and select the correct option from given order:

Column – I

- P) Abiotic components
- Q) Biotic components
- R) Streamlined body
- S) Webbed feet

Column – II

- i) Fish
- ii) Frog
- iii) Rocks, water
- iv) Plants, animal

- (A) P – (iv), Q – (iii), R – (i), S – (ii)
- (B) P – (iv), Q – (iii), R – (ii), S – (i)
- (C) P – (iii), Q – (iv), R – (i), S – (ii)
- (D) P – (iii), Q – (iv), R – (ii), S – (i)

Q45. X are the building blocks of body. They are the main components of various structure in the body, like muscles, nails, hair etc. What is X?

- (A) Fat
- (B) Carbohydrates
- (C) Vitamins
- (D) Proteins

APTITUDE (15)

Q46. Complete the given series - 3, 10, 101, ?

- (A) 10101
- (B) 10201
- (C) 10202
- (D) 11012

Q47. Complete the given series - 13, 35, 57, 79, 911, ?

- (A) 1110
- (B) 1112
- (C) 1113
- (D) 1315

Q48. 335 : 216 :: 987 : ?

- (A) 868
- (B) 867
- (C) 872
- (D) 888

Q49. 9 : 8 :: 16 : ?

- (A) 27
- (B) 17
- (C) 16
- (D) 18

Q50. DFHJ : LNPR :: TVXZ : ?

- (A) DBFH (B) DBHF (C) BDFH (D) FDBH

Q51. Which two numbers should be interchanged to make the given equation correct?

$$45 + 35 \times 7 - 81 \div 9 = 321$$

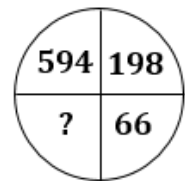
- (A) 45 and 35 (B) 45 and 7 (C) 7 and 9 (D) 45 and 81

Q52. Four friends A, B, C and D live in a same locality. The house of B is in the east of A's house but in the north of C's house. The house of C is in the west of D's house. D's house is in which direction of A's house?

- (A) South-East (B) North-East
(C) East (D) Data is inadequate

Q53. The following question has a Magical circle with a question mark. Replace the question mark by choosing the correct response from amongst the given alternatives.

- (A) 33 (B) 11
(C) 22 (D) 44



Q54. The following question has a Magical matrix with a question mark. Replace the question mark by choosing the correct response from amongst the given alternatives.

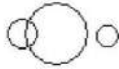
2	5	10
17	?	37
50	65	82

- (A) 20 (B) 26
(C) 19 (D) 32

Q55. Which of the following diagrams indicates the best relation between dogs, pet animals and animals?

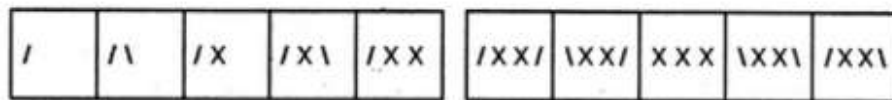
- (A) 
(B) 
(C) 
(D) 

Q56. Which of the following diagrams indicates the best relation between Rabi-Crop, Paddy and Wheat?

- (A) 
- (B) 
- (C) 
- (D) 

Q57. Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.

Problem Figures:



(A) (B) (C) (D) (E) (1) (2) (3) (4) (5)

Answer Figures:

- (A) 1 (B) 2 (C) 4 (D) 5

Q58. Select a suitable figure from the Answer Figures that would replace the question mark (?).

Problem Figures:



(A) (B) (C) (D)

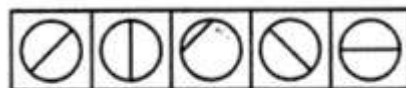
Answer Figures:



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

- (A) 1 (B) 2 (C) 4 (D) 5

Q59. Choose the figure which is different from the rest:



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

- (A) 1 (B) 3 (C) 4 (D) 5

Q60. If South-East becomes North, North-East becomes West and so on. What will West become?

- (A) North-East (B) North-West (C) South-West (D) South-East