



Phase – II

Question Paper

Class - VIII

M.M:60

Time:60 Minutes

OFFLINE EXAMINATION (PHASE-II)

Name: _____ Reg. No. _____ Mobile No. _____

General Instructions:

1. Duration of the examination is 60 Minutes. Question Paper contains 60 questions with maximum 60 marks.
2. There will be negative marking in Phase – II, i.e. $\frac{1}{4}$ mark will be deducted for each incorrect answer.
3. Use of gadgets is not allowed.
4. Students must abide by the instructions issued during the examination by the invigilator or the centre incharge.
5. Before attempting the question paper ensure that it contains all pages & no question is missing.
6. Immediately fill the particulars on this page of the test booklet and **OMR** with **BLACK** ballpoint pen only. Use of pencil is strictly prohibited.
7. Darken the bubbles completely. Do not put a tick or across . Fill the bubbles completely.
8. Half –filled or over-filled bubbles will not be read by the software & liable to be rejected.

Correct Method



Student's Signature

Wrong Method



Invigilator's Signature

ENGLISH (15 MARKS)

Direction for Q1 – Q5: Choose the correct option to fill in the blanks:

Q1. He has not written any book since his mother _____.

- A) died
- B) have died
- C) has died
- D) is dead

Q2. Every man, woman and child _____ now aware of the terrible consequences of the habit of smoking.

- A) are
- B) is
- C) have been
- D) were being

Q3. The famous engineers _____ till today on this project right from the day they arrived here.

- A) had been working
- B) have been working
- C) would be working
- D) will have been working

Q4. Rita walked _____ the big shop and reached the florist.

- A) out
- B) past
- C) or
- D) for

Q5. Either the chairs or the _____ tables _____ kept downstairs.

- A) are
- B) is
- C) was
- D) None of these

Q6. **Fill in the blank with the appropriate Preposition:**

I will be at my uncle's house _____ 8 o' clock.

- A) in
- B) until
- C) for
- D) to

Q7. **Choose the most appropriate Modal to fill in the blank:**

She works hard so that she _____ pass the examination.

- A) will
- B) may
- C) might
- D) would

Direction for Q8 and Q9: Choose the correct Indirect form of the given sentences:

- Q8. “Would you mind taking off your shoes before entering the house?”, he said to the foreigner.
- A) He requested the foreigner to take off his shoes before entering the house.
- B) He told the foreigner that he must take off his shoes before entering the house.
- C) He said to the foreigner that to take off his shoes before entered the house.
- D) Before entering the house, he said that shoes must be taken off.
- Q9. Mr. Raju said to his friend, “Don’t forget to order *chapaties*.”
- A) Mr. Raju reminded his friend to order the *chapaties*.
- B) Mr. Raju told his friend that he should order the *chapaties*.
- C) Mr. Raju has said that his friend to order the *chapaties*.
- D) Mr. Raju said that his friend must not forget ordering *chapaties*.

Direction for Q10 and Q11: Select the option that expresses the given sentences in passive voice.

- Q10. Call the Police.
- A) The Police must be called.
- B) The Police must called.
- C) Call the Police now.
- D) None of these.
- Q11. Please tie your seat belts. Do not get up.
- A) You are requested to tie belts and not to get up.
- B) You are requested to tie your seat belts and not to get up.
- C) You are requested to tie belts and not to got up.
- D) None of these.
- Q12. **Fill in the blank with a suitable Adjective:**
The grandmother is the _____ member of the Club.
- A) eldest
- B) oldest
- C) older
- D) old

Q13. Choose the correct meaning of the Idiom 'Run around in circles'.

- A) to be very inactive
- B) to be very active but with few results
- C) to move your cycle
- D) All of these

Q14. Choose the option which best expresses the meaning of the **underlined idiom/phrase in the sentence:**

The children broke the window pane while playing and had to face the music when their parents returned home.

- A) got rebuked
- B) got himself insulted
- C) receive punishment
- D) None of these

Q15. Fill in the blank with the correct Adjective:

My house is _____ to the school.

- A) next
- B) nearest
- C) further
- D) None of these

MATHEMATICS (15 MARKS)

Q16. Find the value of n if

$$5^{11} \div 625 \times (125)^{\frac{-1}{3}} = 5^{2n} \cdot 5^{-2}.$$

- A) 3
- B) 7
- C) 8
- D) 4

Q17. A sum of money becomes ₹ 13,380 after 3 years and ₹ 20,070 after 6 years on compound interest. The sum is:

- A) ₹ 8800
- B) ₹ 8890
- C) ₹ 8920
- D) ₹ 9040

Q18. A man buys 2 dozen bananas at ₹ 16 per dozen. After selling 18 bananas at the rate of ₹12 per dozen, the shopkeeper reduced the rate to ₹4 per dozen. The loss/profit percent is:

- A) 25.2%
- B) 32.4%
- C) 36.5%
- D) 37.5%

Q19. Circumference of the base of a right circular cylinder is 132 cm and its height is 11 cm less than the base radius. Find the total surface area.

- A) 4072 cm²
- B) 4075 cm²
- C) 4092 cm²
- D) 4100 cm²

Q20. If $\sqrt{1\frac{515}{2401}} = P + \frac{5}{49}$, then value of P is:

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

Q21. The sum of number of rectangular faces of octagonal prism and number of vertices of hexagonal pyramid is:

- A) 28
- B) 18
- C) 15
- D) 20

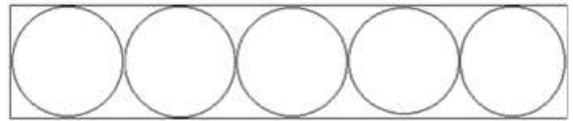
Q22. The measure of five angles of a pentagon ABCDE are

$$x, \frac{1}{2}x, \frac{3}{2}x, \frac{5}{2}x \text{ and } \frac{7}{2}x$$

respectively. What is the difference between the value of the biggest and the smallest angles.

- A) 100°
- B) 120°
- C) 150°
- D) 180°

Q23. If 5 circles of 8.4 cm diameter are cut from a rectangular piece of paper as shown in the figure, then find the area of remaining piece of paper.



- A) 84.5 cm²
- B) 70 cm²
- C) 72 cm²
- D) 75.6 cm²

Q24. Factors of $144 - 4x^6 - 12x^3y^3 - 9y^6$:

- A) $(12 + 2x^3 + 3y^3)(12 - 2x^3 - 3y^3)$
- B) $(12 - 2x^3 + 3y^3)(12 - 2x^3 - 3y^3)$
- C) $(12 - 2x^3 - 3y^3)(12 + 2x^3 - 3y^3)$
- D) $(12 + 2x^3 + 3y^3)(12 + 2y^2 + 3y^2)$

Q25. A is 3 years younger to B and C is 3 years elder to B. If C is 4 times as old as A, then the age of A is_____.

- A) 7 years
- B) 5 years
- C) 3 years
- D) 2 years

- Q26. Sixteen men can complete a work in fifteen days. Twenty four children can do the same work in twenty days. In how many days will eight men and eight children together complete the same job?
- A) 16
B) 15
C) 20
D) None of these
- Q27. Two third of a consignment was sold at a profit of 5% and the remainder at a loss of 2%. If the total profit was ₹ 400, then the value of the consignment was:
- A) ₹10,000
B) ₹12,000
C) ₹15,000
D) ₹20,000
- Q28. If $5^{121} + 5^{121} + 5^{121} + 5^{121} + 5^{121} = 25^{2n-1}$, then the value of n is:
- A) 30
B) 31
C) 122
D) 124
- Q29. If twice the sum of interior angles of a regular polygon is 13 times the sum of exterior angles, then find the number of sides of the polygon.
- A) 10
B) 13
C) 15
D) 18
- Q30. If $(\sqrt{3}x + \sqrt{5}y) = 9$ and $xy = \sqrt{15}$ then find the value of $(\sqrt{3}x - \sqrt{5}y)$.
- A) $\sqrt{21}$
B) 21
C) $\sqrt{9}$
D) $\sqrt{15}$

PHYSICS (5 MARKS)

- Q31. The velocity of ultrasonic sound in water is 1400 m/s. If the time taken to receive the reflected wave is 15 s, then the depth of the ocean as detected by SONAR is_____.
- A) 21 km
B) 10.5 km
C) 105 m
D) 1500m

Q32. Seismic waves originate at a point.

That point is called as _____ of the earthquake.

- A) Epicentre
- B) Origin
- C) Focus
- D) Telocentre

Q33. A marble block of mass 2 kg lying on ice when given a velocity of 6 m/s is stopped by friction in 10 s.

Then, the coefficient of friction is: (take $g=10 \text{ m/s}^2$)

- A) 0.04
- B) 0.06
- C) 0.02
- D) 0.03

Q34. If two plane mirrors are inclined at an angle of 60° with each other. What will be the number of images formed?

- A) 5
- B) 9
- C) 8
- D) 7

Q35. The two thigh bones (femurs), each of cross-sectional area 10 cm^2 support the upper part of a human body of mass 40 kg. Estimate the

total pressure sustained by both the femurs. (Given $g = 10 \text{ ms}^{-2}$)

- A) $1 \times 10^5 \text{ Pa}$
- B) $2 \times 10^5 \text{ Pa}$
- C) $3 \times 10^5 \text{ Pa}$
- D) $4 \times 10^5 \text{ Pa}$

CHEMISTRY (5 MARKS)

Q36. Which of the following is a thermo resistant polymer?

- A) Orion
- B) Polythene
- C) Teflon
- D) Bakelite

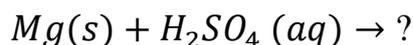
Q37. Which of the following has the highest boiling point ?

- A) Kerosene
- B) Diesel
- C) Petrol
- D) Lubricating Oil

Q38. In a voltaic cell, copper electrode _____.

- A) donates electrons to hydrogen ions
- B) accepts electrons from hydrogen ions
- C) donates electrons to sulphate ions
- D) accepts electrons from sulphate ions

Q39. Complete the chemical reaction.



- A) $\text{MgSO}_3 + \text{H}_2\text{O}$
- B) $\text{MgSO} + \text{H}_2\text{O} + \text{O}_2$
- C) $\text{MgSO}_4 + \text{H}_2$
- D) No reaction

Q40. When the matchstick is struck against the rubbing surface, then red phosphorus:

- A) reacts with Potassium Chlorate.
- B) ignites Antimony Trisulphide.
- C) converts into white Phosphorus.
- D) suddenly bursts into smoke.

BIOLOGY (5 MARKS)

Q41. Find out the incorrect sentence:

- A) Golgi apparatus is involved with the formation of lysosomes.
- B) Nucleus, mitochondria and plastids have DNA. Hence, they are able to make their own structural proteins.
- C) Mitochondria is said to be the power house of the cell as ATP is generated in them.
- D) Cytoplasm is called as protoplasm.

Q42. Some important events in the human female reproductive cycle are given

below. Arrange the events in a proper sequence.

- (i) Secretion of FSH,
- (ii) Growth of Corpus Luteum,
- (iii) Growth of the Follicle and Oogenesis,
- (iv) Ovulation
- (v) Sudden increase in the level of LH

- A) (i) – (iii) – (v) – (iv) – (ii)
- B) (i) – (iv) – (iii) – (v) – (ii)
- C) (ii) – (i) – (iii) – (iv) – (v)
- D) (iii) – (i) – (iv) – (ii) – (v)

Q43. What is the structural composition of a virus?

- I. DNA or RNA
- II. A Protein Coat
- III. Ribosomes

- A) I only
- B) I and II only
- C) II and III only
- D) I, II and III

Q44. A plant disease called ‘Citrus Canker’ is caused by _____.

- A) Bacteria
- B) Moss
- C) Virus
- D) Fungi

- Q45. Which disease, that has a similar molecular structure to DNA nucleotides, is treated with drugs?
- A) Cholera
 - B) HIV/AIDS
 - C) Malaria
 - D) Tuberculosis (TB)

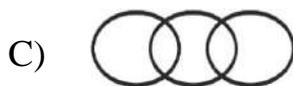
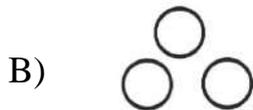
REASONING (15 MARKS)

- Q46. Complete the series:
6, 349, 565, ?, 754, 781
- A) 629
 - B) 601
 - C) 590
 - D) 690
- Q47. The 'Child' is related to 'Family' same as the 'Tentacle' is related to?
- A) Flower
 - B) Fish
 - C) Brain
 - D) Octopus
- Q48. Choose the odd one out:
- A) Ultraviolet rays
 - B) X-rays
 - C) Infrared rays
 - D) Radio waves

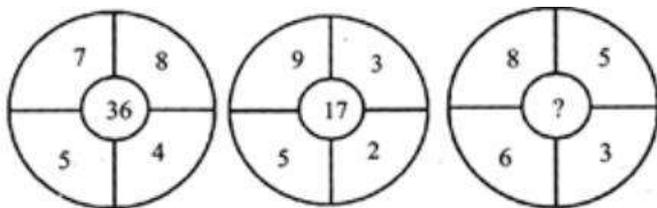
- Q49. If SCOTLAND is written as 12345678, LOAN is written as 1435, LOTS is written as 8124, DON is written as 537 and SON is written as 458, then what will be the code for C?
- A) 6
 - B) 4
 - C) 9
 - D) 0
- Q50. If $3-2$ means $3^2 \times 2^3$ and $(8 + 2)$ means $8^2 \div 2^4$, then the value of $5 - (9+3)$ is:
- A) $\frac{-5}{12}$
 - B) -25
 - C) 25
 - D) -60
- Q51. In a group of buffaloes and ducks, the number of legs are 24 more than twice the number of heads. What is the number of buffaloes in the group?
- A) 6
 - B) 12
 - C) 8
 - D) None of these

- Q52. Deepa went to the movies nine days ago, she goes to the movies only on Thursday. What day of the week is today?
- A) Tuesday
B) Sunday
C) Thursday
D) Saturday
- Q53. A clock, which losses uniformly is 15 minutes fast at 9 am on 3rd of December and is 25 minutes less than the correct time at 3 p.m. on 6th of the same month. At what time was it correct?
- A) 2:15 a.m. on 3rd December
B) 2.15 p.m. on 4th December
C) 2.15 a.m. on 3rd December
D) 2.15 a.m. on 4th December
- Q54. Shaan walks 1km towards East and then he turns to South and walks 5 km. Again he turns to East and walks 2 km after this he turns to North and walks 9 km. Now, how far is he from his starting point?
- A) 3 km
B) 4 km
C) 5 km
D) 7 km
- Q55. Pointing towards a girl, a professor said, “She is the only daughter of the only son of the wife of the father-in-law of my wife.” How is the girl related with the professor?
- A) Daughter-in-Law
B) Daughter
C) Niece
D) None of these
- Q56. **Statements:** All rooms are hotels.
All hotels are buildings.
All buildings are mountains.
Conclusion:
- I. Some mountains are hotels.
II. Some buildings are rooms.
III. Some mountains are rooms.
- A) Only I and II follows
B) Only I and III follows
C) Only II and III follows
D) All I, II and III follows.
- Q57. In a dice a, b, c and d are written on the adjacent faces, In a clockwise order and e and f at the top and bottom. When c is at the top, what will be at the bottom?
- A) b
B) c
C) a
D) Data insufficient

Q58. In a dinner party both fish and meat were served. Some took only fish and some only meat. There were some vegetarians who did not accept either. The rest accepted fish and meat. Which of the following logic diagrams correctly reflects this situation?

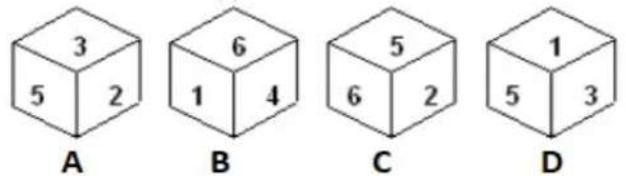


Q59. Insert the missing character:



- A) 18
- B) 22
- C) 36
- D) 19

Q60. What number is opposite to 5?



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

SPACE FOR ROUGH WORK

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