



5th All India RPS OLYMPIAD 2023-24

Phase – II

Question Paper

Class - VII

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 a cross . 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

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English (15 Marks)

Choose the correct options:

- Q1. The captain, along with the players _____ in the field.
(a) are (b) were (c) is (d) have
- Q2. Politics _____ been one of his favourite pastimes.
(a) are (b) have (c) is (d) has
- Q3. Identify the sentence which is in passive voice.
(a) We need a new couch for this room.
(b) The report was filed in that cabinet.
(c) The explosion occurred this morning.
(d) Sales have increased since last month.
- Q4. **Select the option that expresses the given sentence in Passive Voice.**
No one will miss him if he goes away.
(a) He will have been missed by no one if goes away.
(b) He will have missed by no one if he goes away.
(c) He will be missed by no one if he goes away.
(d) He will has been missed by no one if he goes away.
- Q5. She _____ very worried for the past few days but when I asked what the matter was she said that it was nothing.
(a) looking (b) had been looking
(c) looked (d) looks
- Q6. I asked my little sister if she _____ to play with toys.
(a) likes (b) liked
(c) like (d) has liked
- Q7. Every sensible citizen abides _____ the law of the country.
(a) to (b) for (c) by (d) with
- Q8. In the world of today, material values take precedence _____ spiritual values.
(a) at (b) on (c) over (d) about

Q9. Identify the type of adjective of the underlined word.

John has enough money in his pocket.

- (a) Adjective of Quality (b) Adjective of Quantity
(c) Adjective of Number (d) Distributive Adjective

Q10. There is _____ milk in the pan. She can not make a cup of tea for you.

- (a) little (b) a little (c) few (d) a few

Direction for Q11 & Q12: Select one option which best expresses the same sentence in Indirect Speech.

Q11. My neighbour said to me, "Let's forget our differences and be friends again."

- (a) My neighbour told to me to forget our differences and be friends again.
(b) My neighbour suggested to me that we should forget our differences and be friends again.
(c) My neighbour said to me to forget my differences with him and be friends again.
(d) My neighbour told me that I should forget their differences and be friends again.

Q12. The little boy said to his father, "Why does ice float on water?"

- (a) The little boy asked his father why ice floats on water.
(b) The little boy asked his father that why ice floated on water.
(c) The little boy asked his father why did ice float on water.
(d) The little boy asked his father why ice floated on water.

Q13. You wanted that, _____ ?

- (a) would you (b) would n't you
(c) didn't you (d) do you

Q14. You think you know the answer but you don't, _____ ?

- (a) don't you (b) would you
(c) wouldn't you (d) do you

Q15. _____! Mother is asleep. Don't disturb her.

- (a) Alas (b) Oh
(c) Hush (d) Hurrah

Maths (15 Marks)

Q16. If the angles of a triangle are in the ratio 1:2:1 then which of the following statement(s) is/are correct.

- (i) Triangle is right angled triangle
 - (ii) Triangle is an isosceles triangle.
 - (iii) Angles of triangle are $45^\circ, 45^\circ$ and 90° respectively.
- (a) (i) and (iii) is correct (b) Only (iii) is correct
(c) (ii) and (iii) is correct (d) (i) and (ii) is correct

Q17. Match each of the entries in column I with the appropriate entries in column II.

Column I

Column II

- | | |
|------------------------------|-------------------|
| (A) $\frac{2y}{3} - 5 = 3$ | (p) $\frac{1}{2}$ |
| (B) $-4(2+y)=8$ | (q) 2 |
| (C) $4+3(y+2)=16$ | (r) 8 |
| (D) $7y + \frac{19}{2} = 13$ | (s) 12 |
| (E) $4+5(y-1)=39$ | (t) -4 |

- (a) (A)→(s);(B)→(t);(C)→(q);(D)→(r);(E)→(p)
- (b) (A)→(s);(B)→(t);(C)→(r);(D)→(q);(E)→(p)
- (c) (A)→(s);(B)→(t);(C)→(q);(D)→(p);(E)→(r)
- (d) (A)→(q);(B)→(t);(C)→(p);(D)→(s);(E)→(r)

Q18. Match the column and select the correct options:

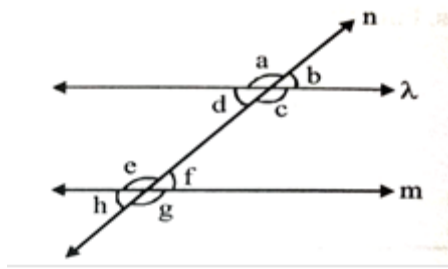
Column I

Column II

- | | |
|---|---------|
| (i) 60% of $_ - 60 = 60\%$ | (p) 4 |
| (ii) $2 : _ :: _ : 8$ | (q) 8 |
| (iii) cost price of 27 articles
is equal to selling price of 25
articles. Profit % is | (r) 10 |
| (iv) 50% of $_ + 2 = 7$ | (s) 101 |

- (a) (i)→(s),(ii)→p,(iii)→r,(iv)→q
- (b) (i) →s,(ii)→p,(iii)→q,(iv)→r
- (c) (i)→p,(ii)→r,(iii)→s,(iv)→q
- (d) (i)→r,(ii)→s,(iii)→q,(iv)→p

Q22. Observe the figure and match the column:



Column-I

Column-II

- | | |
|---|----------------|
| (A) Supplementary angle of $\angle b$ | (p) $\angle g$ |
| (B) Vertically opposite angle of $\angle g$ | (q) $\angle h$ |
| (C) Adjacent angle of $\angle g$ | (r) $\angle c$ |
| (D) Corresponding angle of $\angle c$ | (s) $\angle e$ |
- (a) (A)→(r);(B)→(s);(C)→(q);(D)→(p)
- (b) (A)→(p);(B)→(q);(C)→(r);(D)→(s)
- (c) (A)→(q);(B)→(s);(C)→(r);(D)→(p)
- (d) (A)→(s);(B)→(p);(C)→(q);(D)→(r)

Q23. Consider the following statements:

A. The product of an integer and a rational number can never be a natural number.

B. The quotient of division of an integer by a rational number can never be an integer.

Which of the statements given above is/are correct?

- | | |
|------------------|---------------------|
| (a) A only | (b) B only |
| (c) Both A and B | (d) Neither A nor B |

Q24. Every floor of a 96 storey skyscraper is 5m high. If a balloon rises 3m every second, then how long will it take for the balloon to rise from 47th to 92nd floor?

- | | | | |
|--------------|------------|------------|-------------|
| (a) 140 secs | (b) 3 mins | (c) 2 mins | (d) 75 secs |
|--------------|------------|------------|-------------|

Q25. Peter defines a rational number in the following ways. "It is of the form p/q , where q is the smallest whole number." This definition is

- (a) Always true
- (b) Represents some rational number only
- (c) Same as the definition of rational number
- (d) Always false

Q26. The following pie chart represents food items preferred by 13320 people in a survey. Find the difference between the number of people preferring bread and salad.



- (a) 1402 (b) 1406 (c) 1468 (d) 1516

Q27. The sum of the present ages of Radhey and Shyam is 94 years. If 8 years ago, the ratio of Radhey's age and Shyam's age was 5:8 respectively, then find the difference between their present ages.

- (a) 15 years (b) 18 years (c) 16 years (d) 20 years

Q28. The radius of the circular park covered with grass is 3m. A path of width 2.5m is to be made around it. People uses this path for walking. Find the area of the path.

(Use $\pi = 3.14$)

- (a) 61.755m^2 (b) 64.325m^2 (c) 66.725m^2 (d) 68.235m^2

Q29. Read the statements carefully and select the correct option.

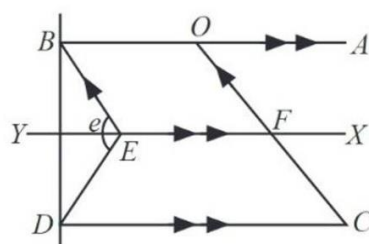
Statement-I: The line segment joining a vertex of a triangle to the mid point of its opposite side called the vertex of median of the triangle.

Statement-II: If the exterior angle of a triangle is a right angle, then each opposite interior angle is an obtuse angle

- (a) Both Statement-I and Statement-II are true.
 (b) Both Statement-I and Statement-II are false.
 (c) Statement-I is true but Statement-II is false.
 (d) Statement-I is false but Statement-II is true.

Q30. In the given figure, if $AB \parallel CD \parallel XY$ and $OC \parallel EB$, $\angle ABE=46^\circ$ and $\angle EDC=33^\circ$, then

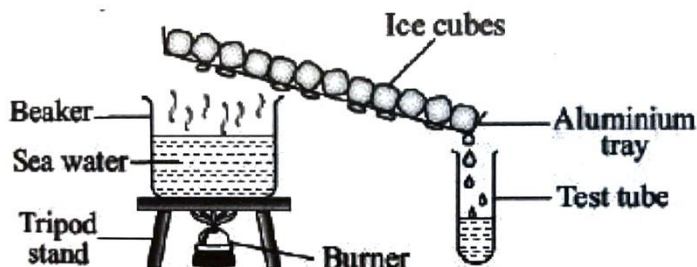
- (a) $e=79^\circ$, $\angle OCD=46^\circ$
 (b) $e=101^\circ$, $\angle OCD=33^\circ$
 (c) $e=89^\circ$, $\angle OCD=46^\circ$
 (d) $e=79^\circ$, $\angle OCD=33^\circ$



Chemistry (5 Marks)

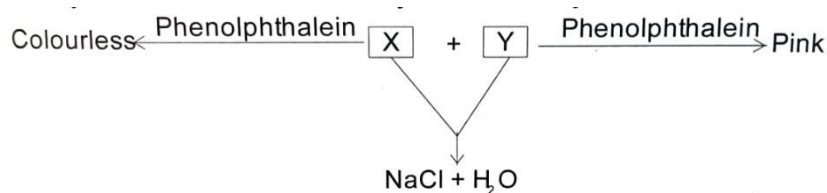
Q36. Observe the following experimental set-up carefully.

Identify liquid (X) in the test tube, residue (Y) left in the beaker during process (Z) involved



- | | X | Y | Z |
|-----|-----------|-------|-------------------------------|
| (a) | Sea water | Sugar | Sedimentation and Decantation |
| (b) | Water | Salt | Evaporation and Filtration |
| (c) | Sea water | Salt | Condensation and Evaporation |
| (d) | Water | Salt | Evaporation and Condensation |

Q37. Study the flow chart carefully and identify X & Y.



- | | |
|-------------------------------|--------------------|
| (a) X=NaOH, Y=HCL | (b) X=NaOH, Y=NaCl |
| (c) X=HCl, Y=H ₂ O | (d) X=HCl, Y=NaOH |
- Q38. Which of the following is used as fertilizer ?

- | | |
|---|----------------------|
| (a) NH ₄ NO ₃ | (b) KNO ₃ |
| (c) (NH ₄) ₂ SO ₄ | (d) All of these |

Q39. Name the Acid, which is a weak acid and also a mineral acid.

- | | |
|------------------------------------|------------------------------------|
| (a) H ₃ BO ₃ | (b) H ₃ PO ₃ |
| (c) CH ₃ COOH | (d) H ₂ CO ₃ |

Q40. DDT is synthesized from which substance?

- | | |
|--------------------|-------------------|
| (a) Chlorobenzene | (b) Chloral |
| (c) Both (a) & (b) | (d) None of these |

Biology (5 Marks)

Q41. Digestion is completed in

- (a) duodenum (b) ileum
(c) stomach (d) large intestine

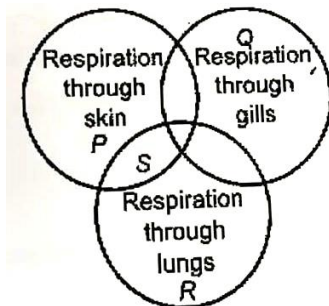
Q42. Read the given statements and select the correct option.

Statement 1: Plants serve as the ultimate food source for all the organisms whether herbivores or carnivores.

Statement 2: Plants use solar energy to prepare their own food.

- (a) Both statement 1 and 2 are true and statement 2 is the correct explanation of statement 1.
(b) Both statement 1 and 2 are true but statement 2 is not the correct explanation of statement 1.
(c) Statement 1 is true but statement 2 is false.
(d) Both statements 1 and 2 are false.

Q43. Refer to the given Venn diagram and identify P, Q, R and S.



- (a) P- Paramecium, Q- Scoliodon, R-Spiny ant eater, S-Lung fish.
(b) P-Lion tailed macaque, Q-Salmon, R-Dolphin, S-Platypus.
(c) P- Earthworm, Q- Rohu, R-Blue whale, S-Frog.
(d) P-Amoeba, Q- Tadpole, R- Trout, S – Snake.

Q44. Which among the following statement is true?

- (a) In Protozoans and Annelids, no specific excretory organs are present.
(b) In porifera and Cnidarians, no specific excretory organs are present.
(c) In Cnidarians and insects, no specific excretory organs are present.
(d) In Protozoans and Flatworms, no specific excretory organs are present.

- Q45. Which of the following contributes most to transport of water from the ground to the leaves of a tall tree?
- (a) Breakdown of ATP
 - (b) Cohesion of water and transpiration pull
 - (c) Root pressure
 - (d) Capillary rise of water in xylem

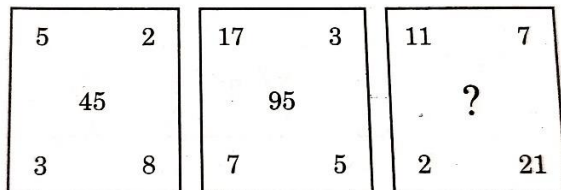
Reasoning (15 Marks)

- Q46. In the series 3,9,15,..... what will be the 21st term ?
- (a) 117
 - (b) 121
 - (c) 123
 - (d) 129
- Q47. **Direction** : Which option will replace the question mark (?).
- ATTRIBUTION, TTRIBUTIO, RIBUTIO, IBUTI, ?
- (a) IBU
 - (b) UT
 - (c) UTI
 - (d) BUT
- Q48. In certain language SUPPORTERS is coded as 8780, then INEVITABLE is coded as what. ?
- (a) 4950
 - (b) 5940
 - (c) 6940
 - (d) 4940
- Q49. **Direction** : Find out the alternative which will replace the question mark.
- 8 : 28 :: 27 : ?
- (a) 28
 - (b) 8
 - (c) 64
 - (d) 65
- Q 50. In the question, certain pairs of words are given, out of which the words in all pairs except one, bear a certain common relationship. Choose the pair in which the words are differently related.
- (a) Malaria : Protozoa
 - (b) Yeast : Fungi
 - (c) Typhoid : Bacteria
 - (d) Corona : Virus
- Q 51. Beena starts at point at T, walks straight to point U which is 4 ft away. She turns left at 90⁰ and walks to W which is 4 ft away, turns 90⁰right and goes 3ft to P, turn 90⁰ right and walks 1 ft away and once again turns 90⁰right and goes to R, 3 ft away. What is the distance between T and R?
- (a) 4 ft
 - (b) 5 ft
 - (c) 7 ft
 - (d) 8 ft

Q52. If $A+B$ means A is the mother of B, $A-B$ means A is the brother of B, $A\%B$ means A is the father of B and $A\times B$ means A is the sister of B, which of the following shows that P is the maternal uncle of Q?

- (a) $Q-N+M\times P$ (b) $P+S\times N-Q$
 (c) $P-M+N\times Q$ (d) $Q-S\%P$

Q53. Which one will replace the question mark?



- (a) 121 (b) 240 (c) 156 (d) 225

Q54. If '-' stands for '÷', '+' stands for 'x', '÷' stands for '-' and 'x' stands for '+', which one of the following equation is correct ?

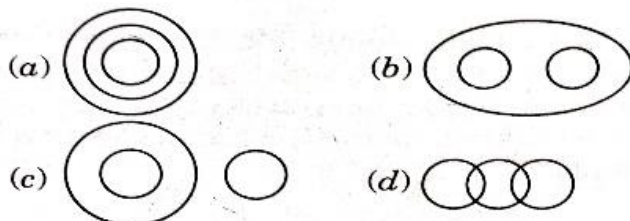
- (a) $30-6+5\times 4\div 2=27$ (b) $30+6-5\div 4\times 2=30$
 (c) $30\times 6\div 5-4+2=32$ (d) $30\div 6\times 5+4-2=40$

Q55. A clock was 7 min behind the actual time at 3pm on Wednesday and 8 min ahead of actual time at 4pm on Friday. When will it show the correct time?

- (a) 1:51pm on Thursday (b) 2:36pm on Thursday
 (c) 5:30pm on Thursday (d) None of these

Q56. **Direction:** In the question given below contains three elements. These elements may or may not have some inter linkage. Each group of elements may fit into one of these diagrams at (a), (b), (c), (d). You have to indicate the group of element which correctly fits into the diagram.

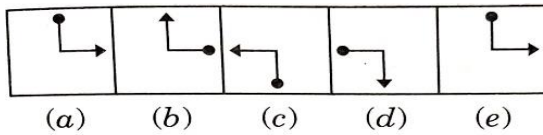
Mammal, Cow and Bat ?



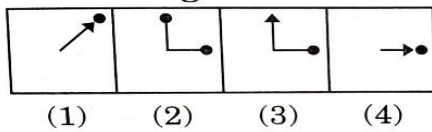
- (a) a (b) b (c) c (d) d

Q57. Direction: The given question consists of the figures marked (a), (b), (c), (d) and (e) called the Problem Figures followed by four other figures marked 1,2,3 and 4 called the Answer Figures. Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.

Problem Figures :



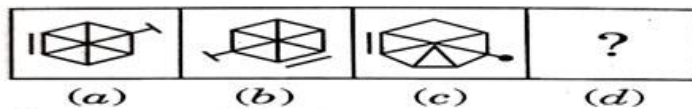
Answer Figures :



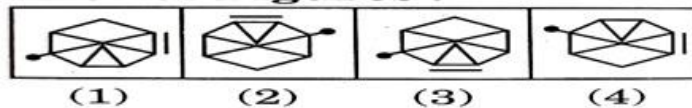
- (a) 1 (b) 2 (c) 3 (d) 4

Q58. Direction: The given question consists of two sets of figures. Figures (a), (b), (c) and (d) constitute the Problem Set while figures 1,2,3 and 4 constitute the Answer Set. There is a definite relationship between figures (a) and (b). Establish a similar relationship between figures (c) and (d) by selecting a suitable figure from the Answer Set that would replace the question mark (?) in figure.

Problem Figures :



Answer Figures :



- (a) 1 (b) 2 (c) 3 (d) 4

Q59. Which of the following days may represent the last day of a century?

- (a) Tuesday (b) Thursday (c) Saturday (d) Monday

Q60. What was the day of the week on 17 June 1998?

- (a) Sunday (b) Wednesday (c) Tuesday (d) Thursday

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3 RD PRIZE	SCOOTY	TABLET	TABLET	KINDLE
4 TH TO 30 TH PRIZE	SPORTS KIT	SPORTS KIT	SPORTS KIT	BICYCLE
31 ST TO 40 TH PRIZE	SPORTS KIT	SPORTS KIT	SPORTS KIT	SPORTS KIT

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