



# SANSKARAM

## GROUP OF SCHOOLS

संस्कारम् के साथ, सफलता का विश्वास।।

**CLASS: 8<sup>th</sup>**

**8<sup>th</sup> OLYMPIAD**

**Date: 29.12.2024**

**PAPER**

Session : 2024-25

**Time: 1:00 Hrs.**

**M.M.: 60**

**PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY**

- Please fill up on the particulars given on the OMR sheet carefully no manual rechecking will be done.**
- Duration of Test is 1 hrs. This Question Paper Contains 60 Questions. All are compulsory. Each question carries one Mark. There is **NO NEGATIVE MARKING**.
- Answers are to be given on a separate OMR sheet.
- Use black and blue ball pen only to darken the circle.
- Mark your answers for questions 1-60 on the single OMR sheet by darkening the circles.
- Sequence of questions is **ENGLISH 1-15, MATHS 16-30, SCIENCE 31-45, APTITUDE TEST (REASONING) 46-60.**
- Rough work can be done anywhere in the booklet but not on the OMR sheet/loose paper.
- Please return the OMR sheet to the invigilator after the test.
- Do not fold OMR sheet and not make any stray marks on OMR sheet otherwise OMR sheet will not be evaluate at all.

Student's Name:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Roll No.:

--	--	--	--	--

Mobile No.:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

## SANSKARAM 8<sup>TH</sup> OLYMPIAD

### Phrasal Verbs-

- Q1. They have set \_\_\_\_\_ a school for the poor children.  
 a) Out b) off c) up d) in
- Q2. I was taken \_\_\_\_\_ by my best friend.  
 a) off b) on c) in d) to
- Q3. They put \_\_\_\_\_ a tent for camping.  
 a) up b) out c) off d) on

### Synonyms-

- Q4. Accord  
 a) Discord b) Agreement c) Vain d) Servile
- Q5. Alien  
 a) outsider b) compel c) rival d) fortune

### Antonyms:-

- Q6. Modest  
 a) joint b) arrogant c) miser d) evident
- Q7. Obvious  
 a) careful b) docile c) obscured d) varied
- Q8. Opaque  
 a) bright b) lucid c) shady d) calm

### Pronouns:-

- Q9. He has lost \_\_\_\_\_ book.  
 a) mine b) yours c) I d) his
- Q10. He took a neighbour of \_\_\_\_\_ to hospital.  
 a) I b) you c) mine d) she

### Choose the correct spellings:-

- Q11. a) permitted b) permitted c) permiited d) permieted
- Q12. a) Ignorence b) ignorense c) ignorance d) ignorense
- Q13. a) Appology b) Apology c) apologe d) apoologe

### Fill in the blanks with suitable article:-

- Q14. She gave me \_\_\_\_\_ unique gift.  
 a) X b) the c) an d) a
- Q15. I met \_\_\_\_\_ European.  
 a) X b) the c) an d) a

- Q16. The factors of  $4a^2 - b^2 + 2a + b$  are  
 (a)  $(2a - b)(2a + b - 1)$  (b)  $(2a + b)(2a - b + 1)$   
 (c)  $(2a - b)(2a - b + 1)$  (d)  $(2a + b)(2a - b - 1)$

- Q17. If  $y = \frac{4}{5}(y + 10)$  then y is  
 a) 40 b) 20 c) 10 d) 60
- Q18. A number is increased by 10% and then decreased by 10%. Then the number  
 a) Decreases by 1% b) Increases by 1% c) does not change d) None of these
- Q19. The cost price of 10 articles is equal to the selling price of 9 articles. Find the profit percent.  
 a)  $10\frac{1}{9}\%$  b)  $12\frac{1}{9}\%$  c)  $11\frac{1}{9}\%$  d) None of these
- Q20. In what time will 800 Rs amount to 882 Rs at 5% per annum compounded annually?  
 a) 2 years b) 3 years c) 1 year d)  $1\frac{1}{2}$  years
- Q21. When the interest is compounded half yearly, then Time becomes  
 a) half b) two times c) three times d) None of these
- Q22. 120 men had food provision for 200 days. After 5 days, 30 men died due to an epidemic. How long will the remaining food last?  
 a) 240 days b) 250 days c) 260 days d) None of these
- Q23. The sum of adjacent angles of a parallelogram is  
 a)  $270^\circ$  b)  $180^\circ$  c)  $90^\circ$  d) None of these

- Q24. The area of a square whose diagonal is 10 cm is  
 a)  $100 \text{ cm}^2$                       b)  $50 \text{ cm}^2$                       c)  $25 \text{ cm}^2$                       d)  $40 \text{ cm}^2$
- Q25. The volume of a cube is  $125 \text{ cm}^3$ . Its total surface area is  
 a)  $25 \text{ cm}^2$                       b)  $150 \text{ cm}^2$                       c)  $75 \text{ cm}^2$                       d)  $100 \text{ cm}^2$
- Q26. The reciprocal of  $\frac{0}{3}$  is  
 a) 1                      b) -1                      c) not defined                      d) 0
- Q27. The value of  $(-2)^{-3}$  is  
 a) -8                      b)  $-\frac{1}{8}$                       c) 8                      d)  $\frac{1}{8}$
- Q28. The sum of first n natural numbers is  
 a)  $\frac{n(n+1)}{2}$                       b)  $n^2$                       c)  $n^2-1$                       d)  $n^2+1$
- Q29. The cube root of 0.512 is  
 a) 0.6                      b) 0.7                      c) 0.8                      d) 0.9
- Q30. If  $x - y = 7$  and  $xy = 9$ , the value of  $(x^2 + y^2)$  is  
 a) 31                      b) 69                      c) 58                      d) 67
- Q31. Which of the following is an advantage of artificial insemination in animal husbandry?  
 a) Improved animal welfare                      b) Increased animal reproduction  
 c) Reduced disease transmission                      d) All of the above
- Q32. Which of the following is a characteristic of marsupials?  
 a) Give birth to fully formed young                      b) Lay eggs  
 c) Have a short gestation period                      d) Have a pouch for nursing young
- Q33. What is the term for the process by which animals produce offspring with desirable traits?  
 a) Artificial selection                      b) Natural selection                      c) Genetic engineering                      d) Hybridization
- Q34. Which of the following is a necessary condition for combustion to occur?  
 a) Fuel                      b) Oxygen                      c) Heat                      d) All of the above
- Q35. What is the term for the colourful part of a flame?  
 a) Innermost zone                      b) Middle zone                      c) Outermost zone                      d) Luminous zone
- Q36. Which microorganism is used in the production of yogurt?  
 a) Lactobacillus                      b) Saccharomyces                      c) Escherichia                      d) Bacillus
- Q37. Which synthetic fiber is known for its resistance to abrasion and wrinkles?  
 a) Polyester                      b) Nylon                      c) Acrylic                      d) Olefin
- Q38. Which property is characteristic of metals?  
 a) Brittle                      b) Dull                      c) Good conductor of electricity                      d) Poor thermal conductivity
- Q39. Which of the following is not a metal?  
 a) Copper                      b) Aluminium                      c) Carbon                      d) Iron
- Q40. Which nutrient is essential for bone growth and development in animals?  
 a) Protein                      b) Carbohydrates                      c) Fats                      d) Calcium
- Q41. What is the term for the study of the emission and transmission of heat and light by flames?  
 a) Thermodynamics                      b) Combustion dynamics                      c) Flame spectroscopy                      d) Heat transfer
- Q42. 'X' is the totality of genes, species and ecosystems of a region. Identify x.  
 a) Biosphere reserve                      b) Biodiversity                      c) Bio-conservation                      d) Bio-community
- Q43. Check cells are made up of :-  
 a) Nerve cells                      b) Muscle cells                      c) Epithelial cells                      d) All of the above
- Q44. Calculate the molecular weight of  $\text{NH}_3$ .  
 a) 17                      b) 18                      c) 19                      d) 16
- Q45. The image formed by a spherical mirror is always virtual. What type of spherical mirror it should be.  
 a) concave                      b) convex                      c) either concave or convex                      d) All of these
- Q46. If GOODNESS is coded as HNPCODTR, then how GREATNESS can be written in that code?  
 a) HQZSMFRT                      b) HQFZUFRTM                      c) HQFZUODTR                      d) HQFZUMFRT
- Q47. In a certain code language, 'GIVE' is written as 'VIEG' and 'OVER' is written as 'EVRO'. How will 'DISK' be written in that same code?  
 a) SIDK                      b) KISD                      c) KDSI                      d) SIKD

Q48. Find the next number in Series

40, 30, 22, 16, ?

- a) 10                                      b) 12                                      c) 15                                      d) 17

Q49. Find the missing term in the given sequence.

AB, DEF, HIJK, ?, STUVWX

- a) LMNO                                      b) LMNOP                                      c) MNOPQ                                      d) QRSTU

Q50. Arrange the following words in a logical and meaningful order.

1. Frog                                      2. Eagle                                      3. Grasshopper                                      4. Snake                                      5. Grass

- a) 3, 4, 2, 5, 1                                      b) 1, 3, 5, 2, 4                                      c) 5, 3, 1, 4, 2                                      d) 5, 3, 4, 2, 1

Q51. A, B, C, D, E and F are sitting in a row. 'E' and 'F' are in the centre and 'A' and 'B' are at the ends. 'C' is sitting on the left of 'A'. Then, who is sitting on the right of 'B'?

- a) A                                      b) D                                      c) E                                      d) F

Q52. Read the following information carefully and answer the questions given below.

Ravi and Kunal are good in Hockey and Volleyball. Sachin and Ravi are good in Hockey and Baseball. Gaurav and Kunal are good in Cricket and Volleyball. Sachin, Gaurav and Michael are good in Football and Baseball.

1. Who is good in Hockey, Cricket and Volleyball?

- a) Sachin                                      b) Kunal                                      c) Ravi                                      d) Gaurav

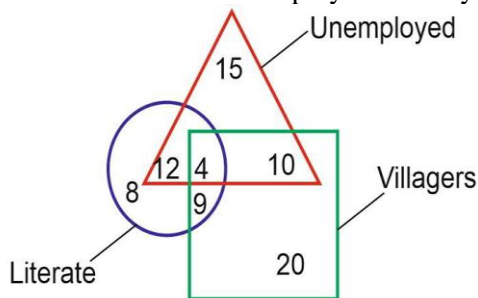
Q53. Five villages P, Q, R, S and T situated close to each other. P is to the West of Q, R is to the South of P, T is to the North of Q and S is to the East of T. Then, in which direction R is with respect to S?

- a) North-West                                      b) South-East                                      c) South-West                                      d) Data inadequate

Q54. If  $5 \times 4 = 15$ ,  $7 \times 8 = 49$  and  $6 \times 5 = 24$ , then  $8 \times 4$  is equal to

- a) 24                                      b) 26                                      c) 28                                      d) 30

Q55. Which number show Person who are literate and unemployed but they are belong to cities?



- a) 15                                      b) 4                                      c) 12                                      d) 9

Q56. Choose the missing number to complete the series.

5, 9, 21, 37, 81,....

- a) 153                                      b) 150                                      c) 158                                      d) 151

Q57. Choose the missing number to complete the series.

240,....., 120, 40, 10, 2

- a) 120                                      b) 240                                      c) 40                                      d) 10

Q58. Find the missing term from amongst the options.

18, 17, 19,....., 20, 15, 21, 14

- a) 16                                      b) 17                                      c) 18                                      d) 19

Q59. In a row of girls, Beena is eighth from the left end and Priya is seventeenth from the right end. If they interchange their positions, Beena becomes twelfth from the left end. How many girls are there in the row?

- a) 25                                      b) 24                                      c) 29                                      d) 28

Q60. Komal is 8 ranks ahead of Pallavi in a class of 40. If Pallavi's rank is twenty first from the last, what is Komal's rank from the start?

- a) 12<sup>th</sup>                                      b) 20<sup>th</sup>                                      c) 22<sup>nd</sup>                                      d) 21<sup>st</sup>