



Ganga Education Society's

# SHRADDHA OLYMPIAD QUEST

*In pursuit of excellence...*

CLASS

8

**DO NOT OPEN THIS BOOKLET UNTIL ASKED TO DO SO**

**Total Questions : 50      Time : 1 hr.**

Name : .....

SOQ Roll No. : ..... Contact No.: .....

## Guidelines for the Candidate

1. You will get additional 10 minutes to fill up information about yourself on the OMR sheet before the start of the exam.
2. Write your Name, Class & Roll Number clearly on the OMR sheet and do not forget to sign it. We will share your marks / result and other information related to SOQ exams on your mobile number.
3. The question paper comprises three sections:  
**Section - 1 : Physics & Chemistry (25Q).** **Section - 2 : Biology (15Q.)**  
**Section - 3 : Achiever's Section (10Q.)**
4. All questions are compulsory. There is no negative marking. Use of calculator is not permitted.
5. There is only ONE correct answer. Choose only one option for an answer.
6. To mark your choice of answer by darkening the circle on the OMR sheet, use **black ball point pen** only.

E.g.

**Q.16. In the water cycle condensation is the process of**

- A. Water vapour cooling down and turning into liquid      B. Ice warming up and turning into a liquid  
C. Liquid cooling down and turning into ice                      D. Liquid warming up and turning into water vapour

As the correct answer is option A, you must darken the circle corresponding to option A on the OMR sheet

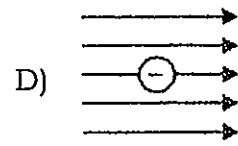
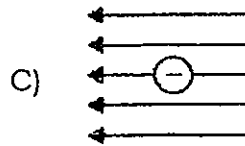
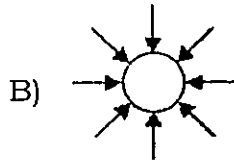
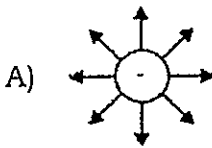
as shown in the figure

16. ● ○ ○ ○

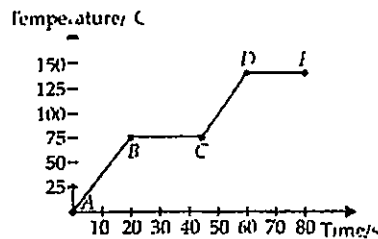
7. Rough work should be done in the blank space provided in the booklet
8. Return the OMR sheet to the invigilator at the end of the exam.

**SECTION - I - PHYSICS & CHEMISTRY**

- 1) A table clock has its minute hand 5 cm long. Find the average velocity of the minute hand between 6: 00 a.m. to 6.30 a.m.
- A)  $11 \times 10^{-5}$  m/s                      B)  $5.5 \times 10^{-5}$  m/s  
 C)  $9 \times 10^{-5}$  m/s                      D)  $18 \times 10^5$  m/s
- 2) A 20 Pa pressure is applied on the head of a nail placed perpendicular to the surface of a wall. If the area of cross — section of the tip of the nail is (1/10) times the area of cross — section of the head, the pressure exerted at the wall is
- A) 10 Pa                      B) 20 Pa                      C) 200 Pa                      D) None of these
- 3) A fire can be made by rubbing two objects together such as rubbing two pieces of rock having rough surfaces. Which of the following statements explain why a fire can be made by rubbing two objects together?
- i) Friction slows down moving objects.                      ii) Fire gives out heat and light energy.  
 iii) Friction produces heat.                      iv) Fire has no mass.
- A) ii only                      B) iii only                      C) i, ii & iii only                      D) ii & iv only
- 4) Which of the following figures represent the electric field lines due to a single negative charge?



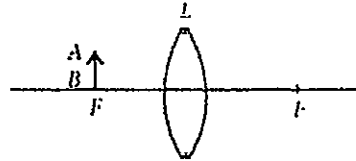
- 5) Which point on the graph below shows that the substance is beginning to boil?



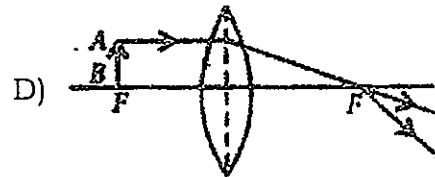
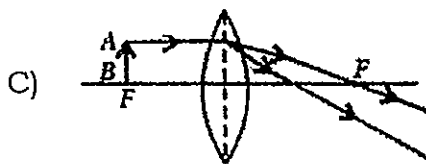
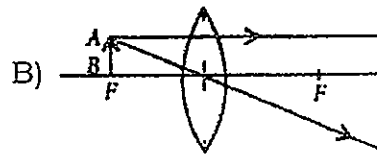
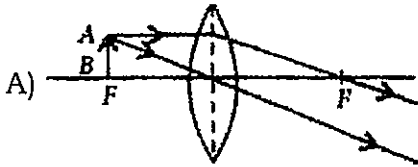
- A) B                      B) C                      C) D                      D) E
- 6) On an average, a human heart is found to beat 72 times in a minute. Its frequency and time period respectively are
- A) 1.2 Hz, 0.83s                      B) 2.5 Hz, 1.2s                      C) 2Hz, 1,2s                      D) 2.5 Hz, 0.83s

Space for rough work

7) An object AB is placed in front of a convex lens at its focus as shown in figure.



Which of the diagram below correctly depicts the refraction through the lens L?



8) The temperature of the sun is measured with

- |                         |                                |
|-------------------------|--------------------------------|
| A) Platinum thermometer | B) gas thermometer             |
| C) Pyrometer            | D) vapour pressure thermometer |

9) A particle is moving towards east enters in a magnetic field directed towards north and deflected in vertically downward direction. The charged particle is

- |                      |              |
|----------------------|--------------|
| A) an electron       | B) a proton  |
| C) an alpha particle | D) a neutron |

10) The inner most layer of earth is called

- |         |          |           |                |
|---------|----------|-----------|----------------|
| A) core | B) crust | C) mantle | D) lithosphere |
|---------|----------|-----------|----------------|

11) A man stands symmetrically between two large plane mirrors fixed to two adjacent walls of a rectangular room. The number of images formed are

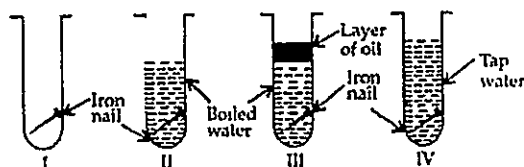
- |      |      |      |      |
|------|------|------|------|
| A) 4 | B) 3 | C) 2 | D) 6 |
|------|------|------|------|

12) Our galaxy Milky Way is

- |                         |                                  |
|-------------------------|----------------------------------|
| A) an elliptical galaxy | B) a ring shaped galaxy.         |
| C) a spiral galaxy      | D) a semicircular shaped galaxy. |

Space for rough work.

- 13) How many of the following are examples of thermosetting plastics?  
 Polythene, Melamine — formaldehyde resin, Polyester, Bakelite, Nylon, PVC, Polystyrene.
- A) 2                      B) 5                      C) 4                      D) 1
- 14) In which test tubes, the rusting of iron nail will take place?



- A) I and IV              B) I, II and IV              C) II and III              D) II, III and IV
- 15) Arrange the following liquids in decreasing order of boiling points:  
 coal tar, fuel oil, kerosene, petrol
- A) coal tar > fuel oil > Kerosene > petrol.              B) fuel oil > Kerosene petrol > coal tar  
 C) Kerosene > petrol > coal tar > fuel oil              D) Petrol > coal tar > fuel oil > kerosene.
- 16) Which part of the flame is hottest?
- A) X  
 B) Y  
 C) Z  
 D) W
- 
- 17) Three students Ankit, Dinesh and Manoj were given three unknown substances X, Y and Z respectively during the activity

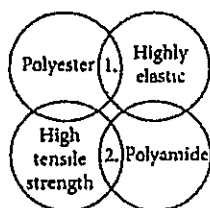
Substance	Property	
	Boiling point (°C)	Solubility in water
X	56	Soluble
Y	45	Insoluble
Z	90	Soluble

On the basis of these properties, which student has chosen the correct separation technique, to separate a substance from the substance — water mixture?

- A) Ankit - Separating funnel              B) Dinesh — Distillation  
 C) Manoj — Fractional distillation              D) All are correct

Space for rough work.

- 18) The ion of an element has 3 positive charge, 27 mass number and 14 neutrons. Find the number of electrons in this ion.  
A) 13                                      B) 10                                      C) 14                                      D) 16
- 19) The formula of phosphate of X is  $XPO_4$ . The formula of its sulphate and chloride would be respectively.  
A)  $X_2(SO_4)_3$ ,  $XCl_3$                                       B)  $XSO_4$ ,  $XCl_2$   
C)  $X(SO_4)_2$ ,  $X_2Cl$                                       D)  $X_2SO_4$ ,  $XCl$
- 20) One mole of hydrogen peroxide ( $H_2O_2$ ) has a mass same as that of  
A) 0.2 mole of sucrose ( $C_{12}H_{22}O_{11}$ )                                      B) 2.0 mol of ammonia  
C) 11.2 L of  $SO_2$  at N.T.P                                      D) 0.1 mol of  $SO_3$
- 21) The formula of phosphate of X is  $XPO_4$ . The formula of its sulphate and chloride would be respectively.  
A)  $X_2(SO_4)_3$ ,  $XCl_3$     B)  $XSO_4$ ,  $XCl_{12}$                                       C)  $X(SO_4)_2$ ,  $X_2Cl$                                       D)  $X_2SO_4$ ,  $XCl$
- 22) Study the given Venn diagram.  
1 and 2 could be respectively  
A) Acrylic and wool  
B) cotton and acrylic  
C) Terelene and nylon  
D) Terrycot and nylon.



- 23) Match the columns and select the correct option from the given codes.

Column I		Column II	
P) Brass	i)	Sn + Pb	
Q) Solder	ii)	Al + Cu + Mn + Mg	
R) Magnalium	iii)	Cu + Zn	
S) Duralumin	iv)	Al + Mg	

	P	Q	R	S
A)	i	iii	iv	ii
B)	iii	i	iv	ii
C)	iv	iii	i	ii
D)	ii	i	iv	iii

Space for rough work.

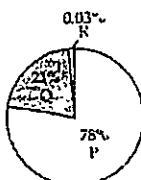
- 24) A few substances are given in the box.

Graphite, lamp, black, coke, coal, fullerene,  
sugar charcoal, gas carbon, wood charcoal, diamond

The total number of amorphous forms of carbon among the given substances is

- A) 6                      B) 5                      C) 3                      D) 1
- 25) If 10 kg of a fuel X produces 1,60,000 J of heat on complete combustion then, the calorific value of X is
- A) 16000 J/ kg      B) 160 kJ/ kg              C) 1.6 kJ/ kg              D) 16 kJ/ kg

**SECTION - II - BIOLOGY**

- 26) Bacterium responsible for the curdling of milk is
- A) Lactobacillus      B) E. coli                      C) Rhizobium                      D) Plasmodium.
- 27) When fungal spores land on a piece of bread left on a table then after a few days, the bread becomes mouldy. What conditions favour the growth of the fungus?
- I) The presence of food                      II) The moist temperature.  
III) The absence of water
- A) I only                      B) I & II                      C) II and III                      D) 1, II and III
- 28) Trypanosoma brucei causes
- A) infection                      B) amoebic dysentery  
C) Sleeping sickness                      D) none of these
- 29) Which of the following is not a feature of potable water?
- A) It must be clean, colourless and odourless.  
B) It must be free from bacteria.  
C) It must have excessive sodium, calcium and magnesium as they given special taste.  
D) It must contain dissolved oxygen.
- 30) Refer to the given pie chart showing the concentration of different components of air. Identify each component (P, Q and R) and select the correct option regarding them
- 
- A) P is a greenhouse gas which in excess causes headache and nausea.  
B) R in higher concentration combines with haemoglobin and produces CoHb which results in cardiovascular malfunction.  
C) Q is essential for combustion of fuel.  
D) P and Q together combine to form brown air.

Space for rough work

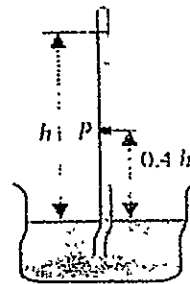
- 31) The gases released from vehicles' exhausts are  
 I) carbon monoxide                      II) Sulphur dioxide  
 III) oxides of nitrogen  
 A) I and II      B) I and III                      C) II and III                      D) I, II and III.
- 32) Hen provides sufficient warmth to eggs by sitting on them. It is known as  
 A) breeding                      B) brewing                      C) brooding D) both a and b
- 33) Test tube technique is called.  
 A) in vitro fertilisation                      B) ex vitro fertilisation  
 C) in situ fertilisation                      D) ex situ fertilisation
- 34) Which of the following statements is /are correct about placenta?  
 i) It is an intimate connection between fetal membrane and uterine wall.  
 ii) Fetal blood comes very close to the maternal blood in the placenta.  
 iii) Fetus gets nutrients, oxygen, etc. from the maternal blood through placenta and gives off wastes, CO<sub>2</sub> etc.  
 A) ii only                      B) i & ii                      C) iii only                      D) i, ii & iii
- 35) A girl is 13 years old and 130 cm tall. At the end of the growth period she is likely to be (Note: % of full height of 13 years old girl is 95%)  
 A) 150 cm tall      B) 137 cm tall                      C) 146 cm tall                      D) 156 cm tall
- 36) Which menstruation stops, the uterine lining is very thin. The repair of the uterine lining takes about \_\_\_\_\_ days.  
 A) 7                      B) 9                      C) 11                      D) 13
- 37) Following are the events occur during menstrual cycle. Which sequence?  
 i) The ovum dies within 24 hours after ovulation.  
 ii) The uterus wall thickened with blood vessels.  
 iii) The uterus wall breaks down.  
 iv) The ovary discharges an ovum.  
 A) i, iii, ii, iv                      B) ii, iv, i, iii                      C) iii, i, iv, ii                      D) iv, ii, iii, i
- 38) Species which are at the verge of extinction are called.  
 A) extinct      B) endangered                      C) endemic                      D) none of these
- 39) Which of the following animals has become almost extinct?  
 A) Wolf      B) Rhinoceros                      C) Hippopotamus                      D) Cheetah

Space for rough work.

- 40) The slogan of Chipko movement is associated with five Fs. Which of the following correctly matches with the five Fs?
- A) Food, fodder, fuel, fibre and fertiliser  
 B) Food, fodder, fuel, fibre and fertility  
 C) Food, fodder, fibre- wood and furniture  
 D) Food, firewood, fibre, fertility and Furniture

**SECTION - III - ACHIEVER'S**

- 41) The diagram shows a simple mercury barometer. The mercury level is at a height  $h$ , when the atmospheric pressure is 100000 Pa.



What is the pressure at P?

- A) 40000 Pa  
 B) 60000 Pa  
 C) 100000 Pa  
 D) 140000 Pa
- 42) Kabir floats a small boat in water. He brings a magnet near the boat. Match the following.

	List - I	List - II
P)	Boa goes away from magnet when the north pole is brought near the boat.	1) Boat is made of magnetic material.
Q)	Boat goes near the magnet if the magnet is brought near the boat.	2) Boat is fitted a magnet with the south pole towards magnet.
R)	Boat gets attracted towards the magnet.	3) Boat is fitted with a magnet with the north pole towards the magnet.
S)	Boat is not affected by the magnet.	4) Both is made up of non — magnetic material.

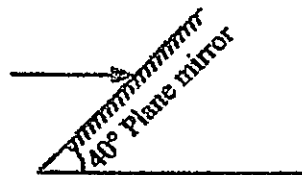
	P	Q	R	S
A)	2	3	1	4
B)	3	4	1	2
C)	3	2,1	1	4
D)	3	4	3	3,4

Space for rough work

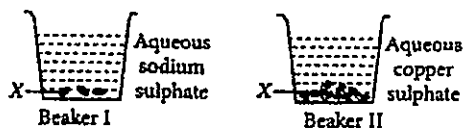


- 43) A plane mirror is inclined at  $40^\circ$  to the floor as shown in the figure. An incident ray parallel to the floor strikes the plane mirror and gets reflected. If the angle of inclination is increased to  $52^\circ$  without changing the direction of the incident ray, what is the change in the angle of incidence and the angle of reflection?

	Change in angle of incidence	Change in angle of reflection
A)	$15^\circ$	$18^\circ$
B)	$10^\circ$	$20^\circ$
C)	$12^\circ$	$12^\circ$
D)	$20^\circ$	$15^\circ$



- 44) Element X is added to two different salt solutions as shown in the figure:



If reaction occurs in beaker II only, then the order of reactivity for these elements is

- A) X > sodium > copper  
 B) Copper > X > sodium  
 C) Sodium > X > Cooper  
 D) None of these
- 45) Read the given statements and select the correct option.  
**Statement 1:** Hydrogen gas obtained from natural gas, is used in the production of fertilisers  
**Statement 2:** Coke is also called 'black gold' due to great commercial importance.  
 A) Both statements 1 and 2 are true and statement 2 is the correct explanation of statement 1  
 B) Both statements of statement 1 and 2 are true but statement 2 is not the correct explanation  
 C) Statement 1 is true and statement 2 is false.  
 D) Both statements 1 and 2 are false
- 46) Read the given statements and select the correct option.  
**Statement 1:** Kerosene oil and wood do not catch fire on their own at room temperature.  
**Statement 2:** A combustible material cannot catch fire as loan as the temperature is lower than its ignition temperature.  
 A) Both statements 1 and 2 are true and statement 2 is the correct explanation of statement 1.  
 B) Both statements 1 and 2 are true but statement 2 is not the correct explanation of statement 1  
 C) Statement 1 is true and statement 2 is false.  
 D) Both statements I and 2 are false

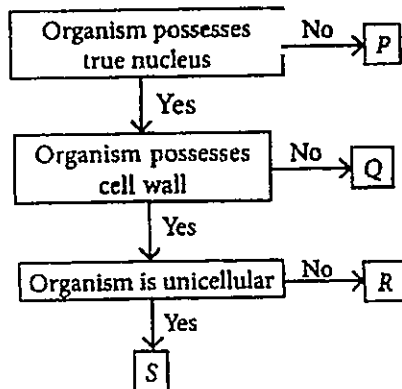
Space for rough work.

47) Refer to the given dichotomous key.

- |   |             |
|---|-------------|
| I) a) Organelle is bound by double membrane                 | - Go to II  |
| b) Organelle is bound by single membrane                    | - Go to III |
| II) a) Organelle is present in both plant and animal cell.  | - Go to IV  |
| b) Organelle is present only in plant cell.                 | - <b>P</b>  |
| III) a) Organelle works as garbage disposal system of cell. | - <b>Q</b>  |
| b) Organelle takes part in osmoregulation                   | - <b>R</b>  |
| IV) a) Organelle possesses oxysomes                         | - <b>S</b>  |
| b) Organelle contains nucleolus                             | - <b>T</b>  |

Select the incorrect statement regarding organelles P, Q, R, S and T.

- A) Organelle P uses sunlight to fix CO<sub>2</sub> into carbohydrates whereas organelle S oxidises carbohydrates to release energy as ATP.
- B) Organelle Q contains hydrolytic enzymes whereas organelle S contains oxidative enzymes.
- C) Organelle R contains DNA whereas organelle T contains RNA and proteins.
- D) Organelle P possesses green pigment chlorophyll whereas organelle T contains thread like structure called chromatin.
- 48) Refer to the given flow chart and select the correct option.



- A) Organism P manufactures its proteins with the help of ribosomes occurring freely in cytoplasm.
- B) Organism Q and R can manufacture their carbohydrates with the help of chloroplasts.
- C) R could be Chlamydomonas whereas S could be Spirogyra.
- D) Lysosome is present in all organisms P, Q, R and S

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Space for rough work.

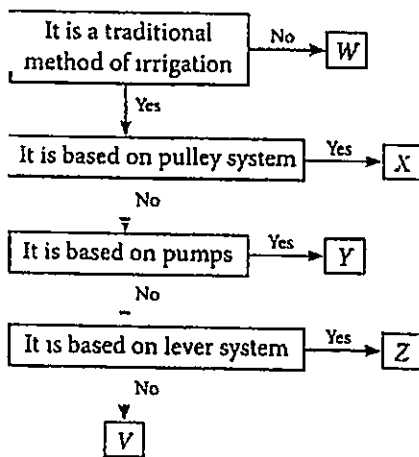
- 49) Refer to the given paragraph where few words have been italicised and select the incorrect option regarding them.

Modern agriculture is carried out in scientific and systematic way. Here chemical fertilisers are preferred as compared to green manures. It helps preventing toxicity in organisms to some extent. Practices like crop rotation, and mixed cropping are preferred nowadays. Mixed cropping involves growing two or more crops simultaneously on the same field whereas crop rotation involves growing a leguminous crop and a non-leguminous crop alternately on the same field. Both these practices prevent the depletion of soil nutrients.

Irrigation systems like drip irrigation and sprinkler system are being employed more often.

Sprinkler system involves pumping water under pressure through nozzles whereas drip irrigation involves use of pipes with small holes to deliver water drop by drop near plant root. These methods help in saving water.

- A) Positions of chemical fertilisers and green manure should be interchanged.  
 B) Positions of mixed cropping and crop rotation should not be interchanged.  
 C) Crop rotation should be replaced by intercropping and prevent should be replaced by promote  
 D) Positions of sprinkler system and drip irrigation should not be interchanged.
- 50) Refer to the given flow chart



Select the correct statement regarding V, W, X, Y and Z.

- A) W causes lot of water wastage hence is not used by farmers due to water scarcity.  
 B) X system of irrigation is useful for sandy soil whereas Y is useful for areas with water shortage.  
 C) Z system of irrigation was used in older times as a way to get water from a well by using oxen.  
 D) V refers to a system of irrigation that involves use of pipes or tubes to deliver water drop by drop to the crop plants.

Space for rough work.

Space for rough work

OLYMPIAD QUEST  
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CLASS : 8th

**SOQ EXAM**

DATE : 25/ 02/2024

TIME : 1 Hr,

**Subject : MATHS**

MARKS : 100

Students Name: \_\_\_\_\_

**SECTION - I**





- 1) Which of the following is arranged in descending order?
- A)  $\frac{-7}{10}, \frac{-3}{5}, \frac{-4}{15}, \frac{1}{30}$                       B)  $\frac{1}{30}, \frac{-3}{5}, \frac{-4}{15}, \frac{7}{10}$
- C)  $\frac{-7}{10}, \frac{-4}{15}, \frac{-3}{5}, \frac{1}{30}$                       D)  $\frac{1}{30}, \frac{-4}{15}, \frac{-3}{5}, \frac{-7}{10}$
- 2) Read the statements carefully. Write 'T' true and F for false
- i) In the equation  $5(x - 1) = 2(x + 8)$ , transposing  $x$  to L.H.S. and 8 to R.H.S. in the first step, we get  $x = 7$
- ii) In an equation, variables can't be transposed from one side of the equation to the other side
- iii) Sum of the ages of Arun and his mother is 34 years. If Arun's present age is  $x$  years, then his mother's age before 5 years was  $(29 - x)$  years.
- iv) If  $5x - 7 = 15 - 6x$ , then  $x = 2$
- |    | <b>i</b> | <b>ii</b> | <b>iii</b> | <b>iv</b> |
|----|----------|-----------|------------|-----------|
| A) | F        | T         | T          | T         |
| B) | T        | F         | T          | F         |
| C) | F        | F         | T          | T         |
| D) | F        | T         | T          | F         |
- 3) A box of 500 LED bulbs contains 10 defective bulbs. One bulb is taken out at random from this box. What is the probability that it is non - defective bulb?
- A) 0.01                      B) 0.89                      C) 0.98                      D) 0.76
- 4) A certain number of women planned to go for a picnic. Each women spent as many rupees as one-fourth of the number of women. If the total bill paid was ₹16384, then find the amount of each share and how many women went for picnic?
- A) ₹ 64, 256                      B) ₹ 42, 394                      C) ₹ 32, 512                      D) ₹ 56, 294
- 5) What smallest number should be multiplied by 4320 to make it a perfect cube?
- A) 50                      B) 25                      C) 100                      D) 125
- 6) Vishal offers a discount of 20.5% on each of the item at his shop and still makes a profit of 15% on each item. When is the cost price of on article marked at ₹ 500?
- A) ₹ 440.65                      B) ₹ 445, 65                      C) ₹ 340, 65                      D) ₹ 345, 65
- 7) There are  $(5m^2 + 7m + 9)$  tickets available for a show  $(3m^2 - 11m - 14)$  tickets were purchased by males,  $(m^2 + 25m + 15)$  tickets were unsold and rest of the tickets were purchased by females. Find the number of tickets purchased by females.
- A)  $m^2 + 16 - 18$                       B)  $3m^2 - 16m - 8$                       C)  $m^2 - 7m + 8$                       D)  $3m^2 + 18m - 8$

- 8) When  $5 \times 10^{-3} - 2000 \times 10^{-6}$  is expressed in standard form, we will get  
 A)  $3 \times 10^{-2}$       B)  $3 \times 10^{-3}$       C)  $3 \times 10^3$       D)  $3 \times 10^2$
- 9) Sukul walks to his school at an average speed of 8 m/min. It takes him 16 minutes to reach the school. If he wants to reach his school in 8 minutes, then what should be his average speed?  
 A) 16 m/min    B) 18 m/min      C) 8 m/min      D) 12 m/min
- 10) Simplify :  $(a^3x - x^4 + a^2x^2 - ax^3) \div (a - x) \times$   
 A)  $(a + x)^2$       B)  $(a - x)^2$       C)  $a + x$       D)  $a - x$
- 11) Find the least value of \* for which  $4832*18$  is divisible by 3 and 11 both.  
 A) 4      B) 7      C) 5      D) 8
- 12) Multiplicative inverse of  $-\frac{3}{4} \times \left(-\frac{4}{5}\right)$  is  
 A)  $\frac{5}{3}$       B) 1      C)  $-\frac{3}{5}$       D)  $-\frac{5}{3}$
- 13) Find  $x$ , when  $a = \frac{2x-1}{3}$ ,  $b = \frac{7-3x}{4}$  and  $a - b = 3$ .  
 A)  $\frac{17}{16}$       B)  $-\frac{61}{17}$       C)  $\frac{61}{17}$       D)  $-\frac{17}{61}$
- 14) A spinner is spun 100 times and the number 8 appears 16 times. The probability of getting the number 8 is  
 A)  $4/25$       B)  $8/16$       C)  $3/2$       D)  $8/100$
- 15) Find the square root of 8 correct upto two decimal places.  
 A) 2.83      B) 2.94      C) 3.64      D) 2.45
- 16) Which of the following cube root would end with digit 4?  
 A)  $\sqrt[3]{262144}$       B)  $\sqrt[3]{46656}$       C)  $\sqrt[3]{74088}$       D)  $\sqrt[3]{2097152}$
- 17) Shivani buys a washing machine with the market price Rs. 20,000. The shopkeeper has offered a discount of 10%. If VAT is charged at the rate of 12.5%, then find the amount she paid for the washing machine.  
 A) 40,050      B) 25,400      C) 20,900      D) 20,250
- 18) Fill in the blanks  
 $(1000 + 18)(1000 + 32) = (1000)^2 + (18 \underline{\quad} 32) \times 1000 + 18 \underline{\quad} 32$   
 A) +,  $\times$       B)  $\times$ , +      C) +, +      D)  $\times$ ,  $\times$
- 19) If  $6^a = 1296$ , then  $(a+1)^{-a} = \underline{\quad}$   
 A)  $5^{-3}$       B)  $\frac{1}{625}$       C)  $\frac{1}{25}$       D) 125
- 20) 6 identical machines can produce a total of 24000 buttons in 2 hours. At the same rate, how many buttons could 10 such machines produce in 4 hours?  
 A) 80000      B) 100000      C) 75000      D) 60000
- 21) Factorise:  $(7a - 4b)^2 + 9(7a - 4b) + 20$   
 A)  $(7q - 4b + 5)(7a - 4b + 4)$       B)  $(7a - 4b)(3a + 2b + 6)$   
 C)  $(7a + 4b + 5)(7a + 4b + 4)$       D)  $(7a + 4b)(3a - 2b - 6)$
- 22) How many of the following number are divisible by 2 and 3 but not by 9?  
 1296, 4056, 3456, 13182, 6084  
 A) 4      B) 5      C) 3      D) 2

- 23) The sum of the additive inverse and multiplicative inverse of  $\frac{1}{5}$  is \_\_\_\_\_
- A)  $\frac{24}{5}$                       B)  $-\frac{24}{5}$                       C) 25                      D) -25
- 24) Find the value of  $2 + \frac{2}{2 + \frac{1}{2 + \frac{1}{2}}}$ .
- A)  $\frac{23}{8}$                       B)  $\frac{19}{4}$                       C)  $\frac{17}{6}$                       D)  $\frac{13}{2}$
- 25) Age of a man is four times the age of his son Rohit. After 8 years, he would be two and a half times of Rohit's age. After 16 years from now, how many times would be of Rohit's age?
- A) 2 times                      B)  $2\frac{1}{2}$  times                      C)  $2\frac{3}{4}$  times                      D) 3 times

### SECTION - II

- 26) Select the correct option.

- A) Convex polygon - 
- B) Concave polygon - 
- C) Simple closed curve - 
- D) Polygon - 

- 27) Which of the following steps is incorrect while constructing a quadrilateral MORE in which  $MO = 6$  cm,  $OR = 4.5$  cm,  $\angle M = 60^\circ$ ,  $\angle O = 105^\circ$ ,  $\angle R = 110^\circ$ ,

**Step - 1:** Draw a line segment  $OR = 4.5$  cm

**Step - 2:** At the point O construct an angle  $\angle XOR$  of  $105^\circ$  with compass.

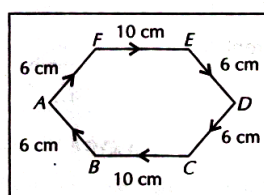
**Step - 3:** At the point R construct an angle  $\angle YRO$  of  $110^\circ$ .

**Step - 4:** With O as the centre and 8 cm as radius, draw an arc intersecting YR at the point M.

**Step - 5:** At the point M construct an angle of  $60^\circ$  and let it intersect RY at the point E.

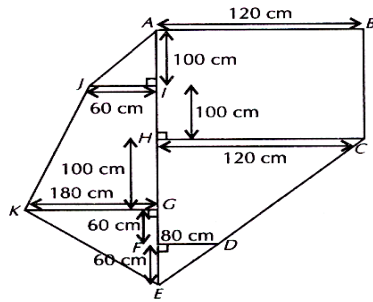
MORE is the required quadrilateral.

- A) Step - 4 only                      B) Both Step -3 and Step - 4
- C) Step - 2 only                      D) Both Step - 2 and Step - 3
- 28) In the given map, the distance between the places is shown using the scale 1 cm : 10 km. Find the actual distance (in km) between place A and D.



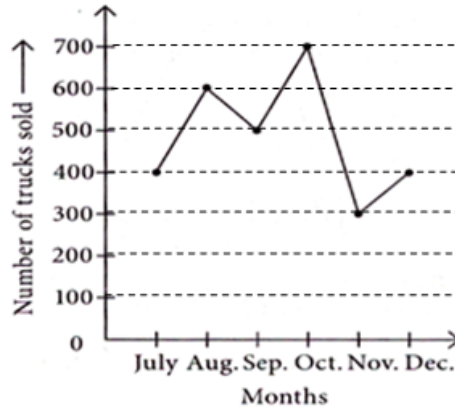
- A) 60 km                      B) 40 km                      C) 220 km                      D) 100 km

29) Find the area of the given figure (not drawn to scale)



- A)  $8.02 \text{ m}^2$       B)  $8020 \text{ cm}^2$       C)  $80.2 \text{ m}^2$       D)  $80200 \text{ m}^2$

30) The given line graph shows the number of trucks sold in 6 months. Study the graph carefully and answer the following questions.



Find the total number of trucks sold in August and November

- A) 800      B) 11000      C) 900      D) 700

31) How many sides does a regular polygon have, if each of its interior angles is

- i)  $120^\circ$       ii)  $140^\circ$       iii)  $135^\circ$       iv)  $60^\circ$

	<b>i</b>	<b>ii</b>	<b>iii</b>	<b>iv</b>
A)	10	4	3	7
B)	8	6	4	5
C)	6	9	8	3
D)	9	6	3	8

32) Which of the following quadrilaterals can be constructed, if the length of both diagonals are given?

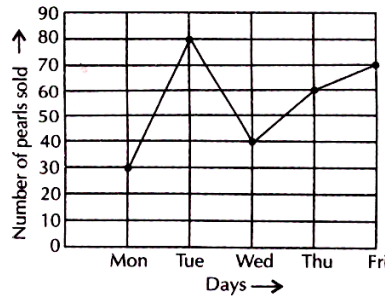
- A) Parallelogram      B) Square      C) Trapezium      D) Rhombus

33) A rectangular piece of paper of length 133 cm and breadth 88 cm, is rolled along its breadth to form a cylinder. Find the volume of the cylinder so formed.

- A)  $81928 \text{ cm}^3$       B)  $81900 \text{ cm}^3$       C)  $24560 \text{ cm}^3$       D)  $74.56 \text{ cm}^3$



34) The given line graph shows the number of pearls sold by a shopkeeper over 5 days. Study the graph carefully and answer the following questions.

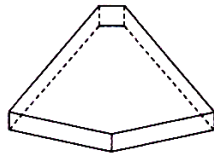


- (i) On which day did he sell  $\frac{1}{4}$  of the total number of pearls sold?  
 (ii) If he collected an average of ₹100 each day, then how much did each pearl cost?

	(i)	(ii)
A)	Friday	₹1.79
B)	Tuesday	₹1.79
C)	Thursday	₹ 2.45
D)	Friday	₹ 2.45

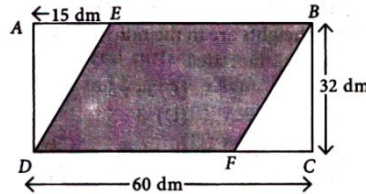
35) How many edges and faces respectively does the given figure have?

- A) 15,7  
 B) 7,16  
 C) 7,15  
 D) 7,12

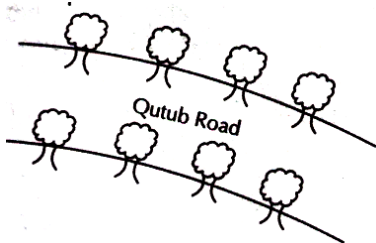


36) Find the area of shaded region, if ABCD is rectangle and EB = DF

- A) 1920 dm<sup>2</sup>  
 B) 480 dm<sup>2</sup>  
 C) 1440 dm<sup>2</sup>  
 D) 1240 dm<sup>2</sup>

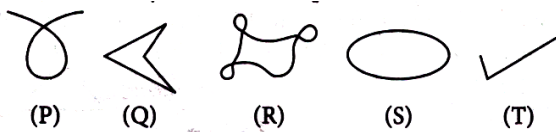


37) Given is the road plan of Delhi government to plant trees and some repairs. Actual distance between each tree is 4 metre and drawing distance on the map between two trees is 2 cm. Find the scale used to draw the map.



- A) 1:200                      B) 1:300                      C) 2:275                      D) 3 : 130

38) How many curves are simple closed curves?



- A) 4                              B) 3                              C) 2                              D) 5

- 39) Given below are the steps of construction to construct a quadrilateral ABCD where  $AB = 5.6$  cm,  $BC = 4.1$  cm,  $CD = 4.4$  cm,  $AD = 3.3$  cm and  $\angle A = 75^\circ$ . Which of the following is the incorrect step?

**Step-I:** Draw  $AB = 5.6$  cm and construct  $\angle BAX = 75^\circ$ .

**Step-II:** With A as centre and radius = 3.3 cm, cut off AD along AX.

**Step-III:** Join BD. With D as centre and radius = 4.1 cm, draw an arc.

**Step-IV:** With B as centre and radius = 4.1 cm, draw an arc to cut the arc drawn in above step at C. Join BC and CD to obtain the required quadrilateral ABCD

- A) Step-I                      B) Step-II                      C) Step-III                      D) Step-IV
- 40) Select the correct net for a rectangular pyramid.



### SECTION - III (ACHIEVERS)

- 41) Read the statement carefully and select the correct option.

**Statement - I :** The product of a rational number and its reciprocal is always 1.

**Statement - II :** When a rational number is divided by a non - zero rational number, then the quotient is always an integer.

- A) Statement -I is true but statement -II is false  
 B) Both statement - I and Statement - II are true.  
 C) Both statement - I and Statement - II are false  
 D) Statement - I is false but statement - II is true.
- 42) Fill in the blanks and select the correct option.
- (i) A number, which when added to four times of itself gives 40 is \_\_\_\_\_
- (ii) \_\_\_\_\_ is the value of x for which the two expressions  $\frac{4x}{5} + 32$  and  $x + 20$  are equal.

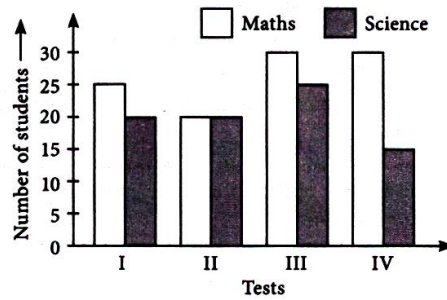
	<b>i</b>	<b>ii</b>
A)	10	42
B)	8	60
C)	-8	50
D)	16	92

- 43) Match the following columns and select the correct option.

	<b>Column - I</b>		<b>Column - II</b>
1	Rectangle	p	A quadrilateral having its opposite sides equal and parallel.
2	Square	q	A quadrilateral having its opposite sides equal and each angle is of $90^\circ$
3	Rhombus	r	A quadrilateral having all sides equal and each angle is of $90^\circ$
4	Trapezium	s	A quadrilateral in which a pair of opposite sides is parallel.

	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
A)	s	q	r	p
B)	p	s	q	r
C)	r	p	s	q
D)	q	r	p	s

- 44) The given double bar graph shows the number of students appeared in Maths and Science test. Study the graph carefully and answer the following questions.



- (i) Find the ratio of total number of students appeared in Maths tests to that of total number of students appeared in Science tests,  
(ii) In how many tests, the number of students appeared in Maths test is more than the number of students appeared in Science test?

	(i)	(ii)
A)	16 : 21	4
B)	21 : 16	3
C)	15 : 17	2
D)	1 : 16	3

- 45) Read the statements carefully and state T for true and F for false  
i) A number ending in an odd number of zeroes is never a perfect square.  
ii) The square of a number either positive or negative is always positive.  
iii) The square root of 1764 is 44  
iv) There are 25 natural numbers lie between  $12^2$  and  $13^2$

	i	ii	iii	iv
A)	T	T	F	F
B)	F	T	F	T
C)	F	F	T	T
D)	T	T	T	T

- 46) Solve the following questions: Find the value of  $\sqrt[3]{a^3 + b}$ , if  $a = 3$  and  $b = a^3 + 10$   
A) 2                                      B) 4                                      C) - 4                                      D)  $\pm 2$

- 47) Read the given statement carefully and select the correct option.

**Statement-I:** If Ashok's marks are 20% less than Vipin's marks, then Vipin's marks are 25% more than Ashok's marks.

**Statement-II:** If the marked price of a pant is ₹ 2250 and the shopkeeper allows a discount of 12% on it, then the selling price of the pant is ₹ 2000.

- 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.
- 48) Solve the following and select the correct option. If  $x + \frac{1}{x} = 2$  then  $x^{16} + \frac{1}{x^{16}} = ?$   
A) 2                                      B) -2                                      C) 16                                      D) -16

49) Using Euler's formula, find the value  $U - W = Y$

Faces(F)	Vertices (V)	Edges (E)	V + F
7	10	U	17
8	V	12	W
X	8	12	Y

A) 14

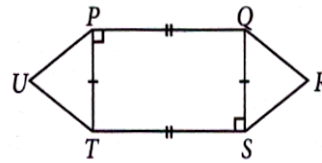
B) 15

C) 22

D) 29

50) Solve the following questions:

(i) Find the area (in  $\text{cm}^2$ ) of the given figure, if  $\triangle PUT$  and  $\triangle QRS$  are equilateral triangles, where  $PT = 16\text{cm}$  and  $PQ = 24\text{ cm}$ .



A)  $128(\sqrt{3} + 1)$

B)  $128(\sqrt{3} + 3)$

C)  $128\sqrt{3}(\sqrt{3} + 1)$

D)  $884(\sqrt{3} + 1)$



Ganga Education Society's

# SHRADDHA OLYMPIAD QUEST

*In pursuit of excellence...*

CLASS

8

**DO NOT OPEN THIS BOOKLET UNTIL ASKED TO DO SO**

**Total Questions : 50 ■ Time : 1 hr.**

Name : .....

SOQ Roll No. : ..... Contact No.: .....

## Guidelines for the Candidate

1. You will get additional 10 minutes to fill up information about yourself on the OMR sheet before the start of the exam.
2. Write your **Name, Class & Roll Number** clearly on the **OMR sheet** and do not forget to sign it. We will share your marks / result and other information related to SOQ exams on your mobile number.
3. The question paper comprises three sections:  
**Section - 1** : Verbal (20 Q.) **Section - 2** : Non Verbal (20 Q.) **Section 3** : Achievers Section (10 Q.)
4. All questions are compulsory. There is no negative marking. Use of calculator is not permitted.
5. There is only ONE correct answer. Choose only one option for an answer.
6. To mark your choice of answer by darkening the circle on the OMR sheet, use **Black ball point pen** only.

E.g.

**Q.16. In the water cycle condensation is the process of**

- A. Water vapour cooling down and turning into liquid    B. Ice warming up and turning into a liquid  
C. Liquid cooling down and turning into ice                      D. Liquid warming up and turning into water vapour

As the correct answer is option A, you must darken the circle corresponding to option A on the OMR sheet

as shown in the figure

16. ● ○ ○ ○

7. Rough work should be done in the blank space provided in the booklet
8. Return the OMR sheet to the invigilator at the end of the exam.

1). Choose the correct alternative that will continue the same pattern and replace the question mark in the given series.

125,80,45,20,?

- (A)5 (B)8 (C)10 (D)12

2). Find the odd one out in the given options

- (A) Doctor: Patients (B) Shopkeepers: Customers  
 (C) Teacher: Students (D) Painter: Paintbrush

3). Based on the given analogies, find the odd one out

- (A) National Anthem: Jana Gana Mana (B) National Tree: Indian Neem  
 (C) National Bird: Peacock (D) National Animal: Royal Bengal Tiger

4). Based on the given analogy, find which of the given options is incorrect.

ACE:15

- (A) BET: 200 (B) NET: 1400 (C) SKY: 5225 (D) FLY: 1800

5). In a certain code DECEMBER is written as ERMBCEDE, in that code which word will be written as **ERMBVENO** ?

- A) . AUGUST B) . OCTOBER C) . SEPTEMBER D) . NOVEMBER

6). In a certain code, '253' means 'books are old'; '546' means 'man is old' and '378' means 'buy good books.' What stands for "are" in that code?

- A) 6 B) 2 C) 4 D) 5

7). Pointing towards a person in a photograph, Anjali said, "He is the only son of the father of my sister's brother." How is that person related to Anjali?

- (A) Mother (B) Father (C) Maternal uncle (D) Cousin

-----  
 Space for rough work.

8). If  $A + B$  means A is the sister of B.  $A - B$  means A is the brother of B.  $A \times B$  means A is the daughter of B, which of the following shows the relation that E (Male) is the maternal uncle of D?

- (A)  $D + F \times E$     (B)  $D - F \times E$     (C)  $D \times F + E$     (D)  $D \times F - E$

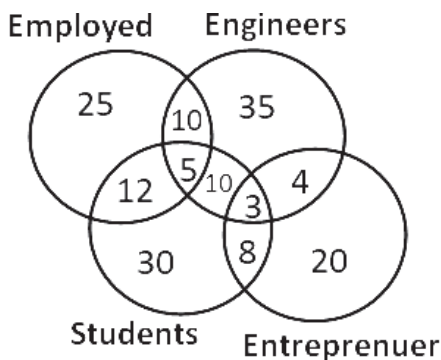
9). Starting from the point X, Jayant walked 15 m towards west. He turned left and walked 20 m. He then turned left and walked 15 m. After this he turned to his right and walked 12 m. How far and in which directions is now Jayant from X?

- A) 32 m, South  
 B) 47 m, East  
 C) 42 m, North  
 D) 27 m, South

10). The length and breadth of a room are 8 m and 6 m respectively. A cat runs along all the four walls and finally along a diagonal order to catch a rat. How much total distance is covered by the cat?

- (A)10    (B)14    (C)38    (D)48

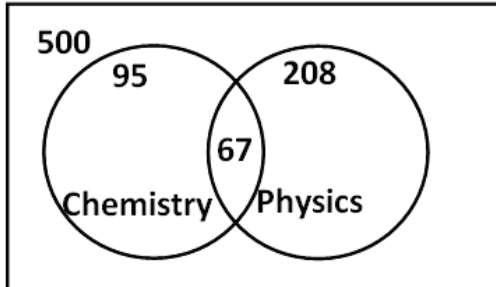
11). The following diagram shows the number of people who are students, engineers, entrepreneur and employed. If the total number of people is 500, then what is the number of students who are Entrepreneur and Engineers but not employed?



- (A) 3    (B) 10    (C) 25    (D) 11

-----  
 Space for rough work.

12). From the figure given below, determine the number of students who did not study any of the two subjects.



- A) 135      B) 264      C) 295      D) 130

13) Choose the correct alternative that will continue the same pattern and replace the question mark in the given series.

6, 13, 25, 51, 101, ?

- (A)201      (B)202      (C)203      (D)205

14). If “@” denotes “added to”, “#” denotes “multiplied by”, “®” denotes “divided by” and “%” denotes “subtracted from”, then which of the following equation is true?

- (A)  $8 @ 8 ® 8 \# 8 \% 8 = 9$       (B)  $42 \% 26 ® 13 \# 2 @ 8 = 46$   
 (C)  $19 \% 84 ® 4 @ 3 \# 4 = 12$       (D)  $31 \% 4 ® 2 \# 19 @ 3 = 4$

15). If Q means ‘add to’, J means ‘multiply by’, T means ‘subtract from’ and K means ‘divide by’, then  $26 K 2 Q 3 J 6 T 4 = ?$

- (A) 10      (B) 28  
 (C) 30      (D) 27

16). If the symbols followed by consonants interchange their positions within the group, then which element is third from the right end?

**B @ C 7 N R % 5 \$ G 6 K M & 4 S # P U 5**

- (A)U      (B)#      (C)P      (D)5

-----  
 Space for rough work.



17). Given below are some group of letters. Which of the options can be joined at the end of these letters to make them meaningful words?

**LEN, SAN, WOR, SEE**

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

18). In a row of students, Ravi is 10th to left of Ramesh, who is 30th from the left end. If Ramesh is exactly in the middle of Ravi and Sandeep, then find minimum numbers of students possible in that row?

- A) 39            B) 38            C) 40            D) 41

19). Arrange the words given below as per order in the dictionary.

A. Deride, B. Delineate, C. Delude, D. Desiccate, E. Deluge

- (A) D, A, E, C, B                            (B) A, C, E, B, D  
 (C) B, C, E, A, D                            (D) B, C, E, D, A

20). Select the odd one out.

- (A) 343            (B) 125            (C) 100            (D) 216

21). In the following question, the first and second figure of the problem figures have certain relation between them and the same relation exists between the third figure and one of the four answer figures (A), (B), (C) and (D). Find that answer figure from the options that will replace '?' from problem figures.

Problem figure:



Answer figures:

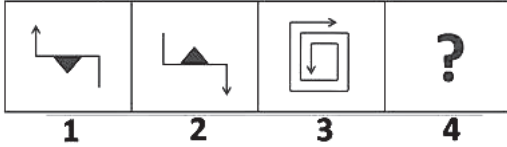


- A)            B)            C)            D)

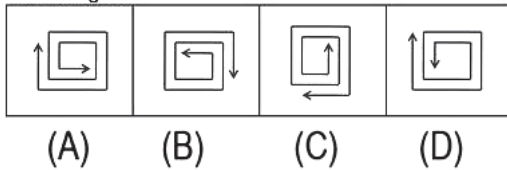
Space for rough work.

22). Find out missing figure (?) of the problem from the given answer figures.

Problem Figures



Answer Figures



23). Choose the alternative which is closely resembles the mirror image of the given combination.

**TARAIN1014A**

- (A) **A4101NIARAT**  
 (C) **A1014TARAIN**

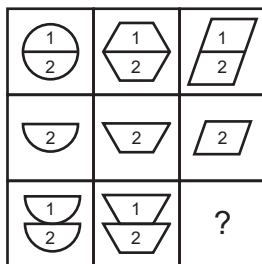
- (B) **AT014NIARAT**  
 (D) **A4101NIARAT**

24). Choose the alternative which is closely resembles the water-image of the given combination.

**E8t4e9C**

- (A) **E8t4e9C**      (B) **E8t4e9C**  
 (C) **E9t4e8C**      (D) **E8t4e9C**

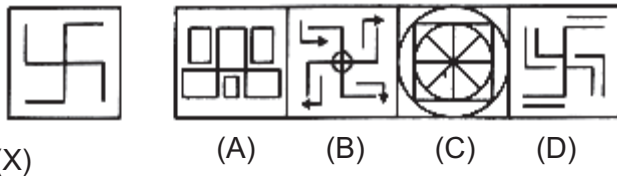
25). Select a suitable figure from the four alternatives that would complete the figure matrix.



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

Space for rough work.

26). Find out the alternative figure which contains figure (X) as its part.

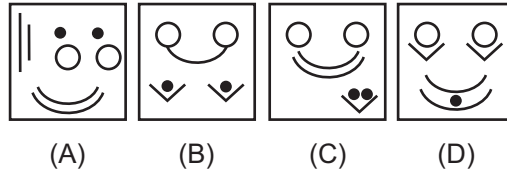


27). In the following question, find the figure given in the answer choices, that can form the question figure.

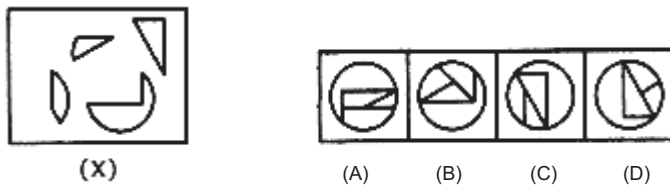
**Question figure.**



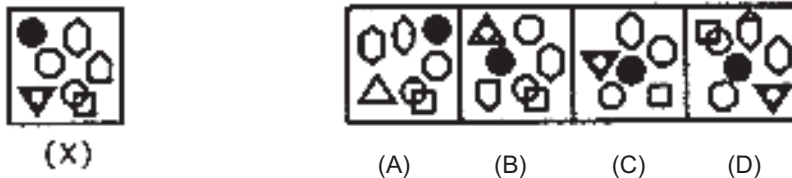
**Answer figures.**



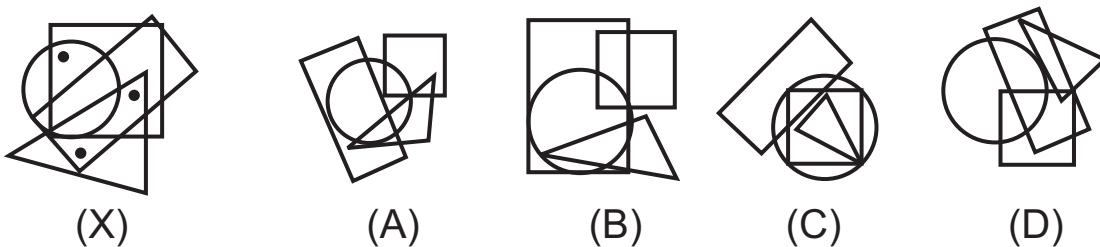
28). Find out which of the option figure can be formed from the pieces given in figure (X).



29). Select the alternative in which the specified components of the key figure (X) are found.



30). Select the figure which satisfies the same conditions of placement of the dots as in Figure-X.



Space for rough work.

31). Select a figure from the options which does not satisfy the same condition of placement of dots as in Fig.(X).

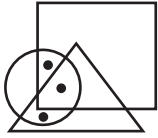
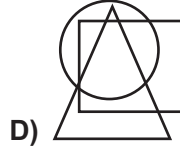
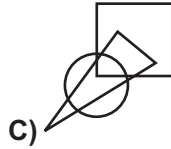
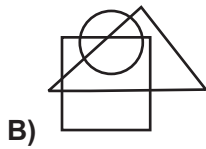
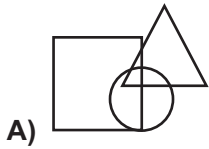
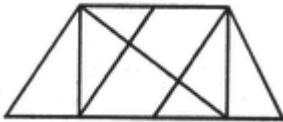


Fig. X

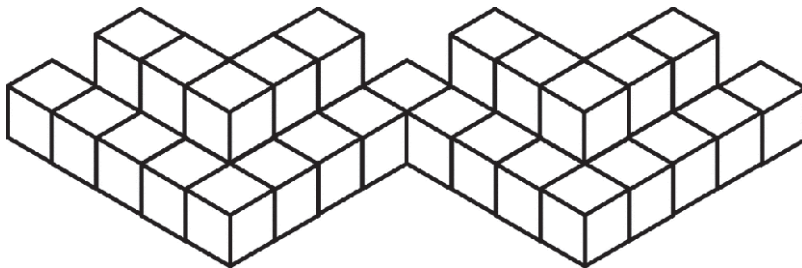


32). Find the number of triangles in the given figure.



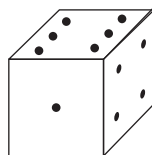
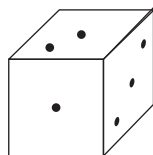
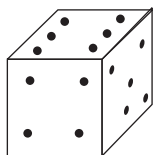
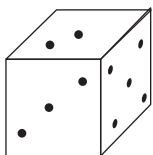
- (A)8      (B)10      (C)12      (D)14

33). Count the number of cubes in the given figure.



- (A)37      (B)33      (C)36      (D)35

34). How many points will be on the face opposite to in face which contains 2 points?



- (A)1      (B)5      (C)4      (D)6

-----  
 Space for rough work.

35). Choose a figure which would most closely resemble the unfolded form of Figure (Z).

X    
 Y    
 Z

(1)    
 (2)    
 (3)    
 (4)

(A)1     (B)2     (C)3     (D)4

36). Choose a figure which would most closely resemble the unfolded form of Figure (Z).

X    
 Y    
 Z

(1)    
 (2)    
 (3)    
 (4)

(A)1     (B)2     (C)3     (D)4

37). Select a suitable figure from the four alternatives that would complete the figure matrix.

		?

--	--	--	--

(1)   (2)   (3)   (4)

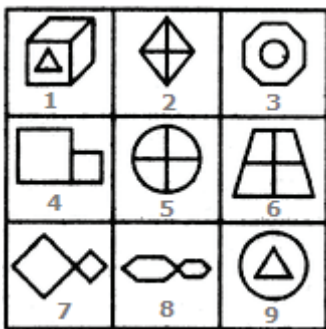
(A)1     (B)2     (C)3     (D)4

Space for rough work.

38). Choose the correct water image of the given figure (X) from amongst the four alternatives.



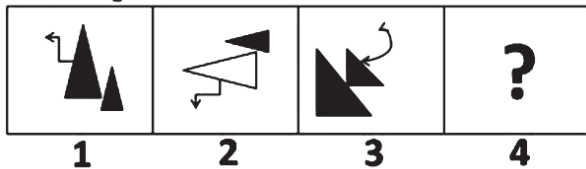
39). Group the given figures into three classes using each figure only once.



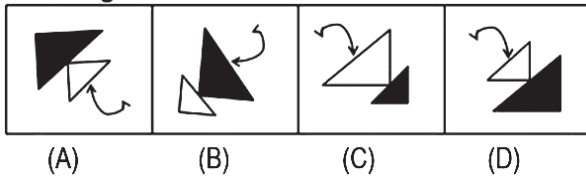
- (A) 1,3,9 ; 2,5,6 ; 4,7,8                      (B) 1,3,9 ; 2,7,8 ; 4,5,6  
 (C) 1,2,4 ; 3,5,7 ; 6,8,9                      (D) 1,3,6 ; 2,4,8 ; 5,7,9

40). Find out missing figure (?) of the problem from the given answer figures.

Problem Figures



Answer Figures



Space for rough work.

41). In the given question, two rows of numbers are given. The resultant number in each row is to be worked out separately based on the following rules and the question below the rows of numbers is to be answered. The operations on numbers progress from left to right.

Rules:

(i) If an odd number is followed by another odd number which is a perfect square, then they are to be added.

(ii) If an even number is followed by an odd number or an odd number is followed by an even number, then they are to be multiplied.

(iii) If an even number is followed by another even number, then the first number is to be divided by the second number.

(iv) If an even number which is a multiple of 5 is followed by an odd number is to be subtracted from the first number.

248 8 25  
3 X 28

If X is the resultant of the first row, then what is the resultant of second row?

- (A) 12      (B) 6      (C) 18      (D) 16

42). Conditions:

1. I is brother of J

2. K is father of I

3. L is brother of M

4. M is daughter of J, then

Who is I to L?

A) Grand father

B) Uncle

C) Son

D) Brother

43). In each of the following questions, relationship between different element is shown in the statements. These statements are followed by two conclusions.

**Statements**  $P \geq Q = R, Q > S > T$

**Conclusions:** I.  $P \geq T$     II.  $T < Q$

(A) If only conclusion I follows

(B) If only conclusion II follows

(C) If either conclusion I or II follows

(D) If neither conclusion I nor II follows

-----  
Space for rough work.

44). Find the missing number.

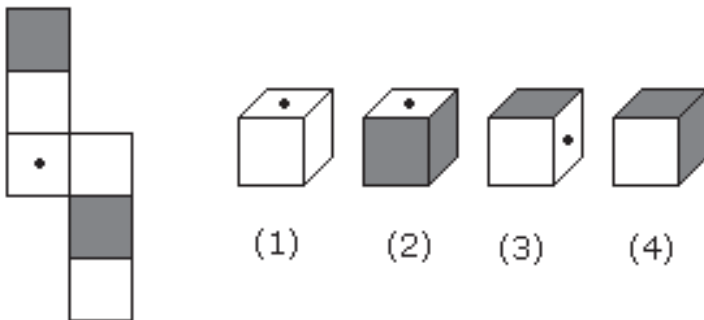
4	8	20
9	3	15
6	6	?

- (A).22            (B).18            (C).16            (D).26

45). Each of the following questions is based on the following information:

1. A # B means B is at 1 metre to the right of A.
  2. A \$ B means B is at 1 metre to the North of A.
  3. A \* B means B is at 1 metre to the left of A.
  4. A @ B means B is at 1 metre to the south of A.
  5. In each question first person from the left is facing North.
- According to P # R \$ A \* U, in which direction is U with respect to P?  
 (A)East            (B)West  
 (C)North            (D)South

46). The figure given on the left hand side in each of the following questions is folded to form a box. Choose from the alternatives (1), (2), (3) and (4) the boxes that is similar to the box formed

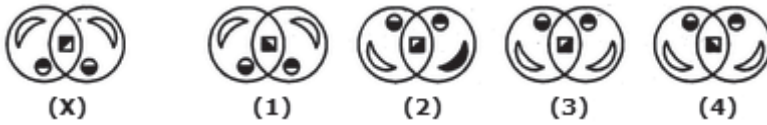


- (A)2 and 3 only            (B)1, 3 and 4 only  
 (C)2 and 4 only            (D)1 and 4 only

-----  
 Space for rough work.

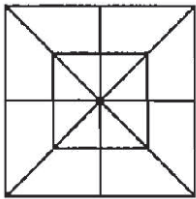


47). Choose the correct option.



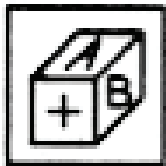
- (A) 1 is mirror image and 3 is water image.
- (B) 3 and 4 are water image.
- (C) 1 is mirror image and 4 is water image.
- (D) 1 is not mirror image but 4 is water image.

48). Count the number of triangles and squares in the following figure

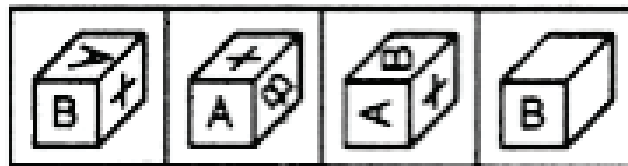


- (A) 32 triangles and 10 squares.
- (B) 28 triangles and 8 squares.
- (C) 30 triangles and 10 squares.
- (D) 38 triangles and 0 squares.

49). Find out how will the key figure (X) look like after rotation.



(X)



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

50). A cube is painted red along all its faces and then divided into 27 smaller identical pieces. How many of the resultant pieces will have two or more than two face painted face painted?

- (A)24 (B)20 (C)8 (D)12

Space for rough work.

---

Space for rough work.

---

Space for rough work.

Space for rough work.



SHRADDHA OLYMPIAD QUEST

**MATHS**

For Std. 3, 4, 5, 6, 7, 8, 9



SHRADDHA OLYMPIAD QUEST

**SCIENCE**

For Std. 3, 4, 5, 6, 7, 8, 9



SHRADDHA OLYMPIAD QUEST

**ENGLISH**

For Std. 3, 4, 5, 6, 7, 8, 9



SHRADDHA OLYMPIAD QUEST

**MAT**

For Std. 3, 4, 5, 6, 7, 8, 9



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# SHRADDHA OLYMPIAD QUEST

*In pursuit of excellence...*

CLASS

8

**DO NOT OPEN THIS BOOKLET UNTIL ASKED TO DO SO**

**Total Questions : 50 ■ Time : 1 hr.**

Name : .....

SOQ Roll No. : ..... Contact No.: .....

## Guidelines for the Candidate

1. You will get additional 10 minutes to fill up information about yourself on the OMR sheet before the start of the exam.
2. Write your **Name, Class & Roll Number** clearly on the **OMR sheet** and do not forget to sign it. We will share your marks / result and other information related to SOQ exams on your mobile number.
3. The question paper comprises three sections:  
**Section - 1** : Grammar & Vocabulary (20 Q.) **Section - 2** : Comprehension (20 Q.) **Section 3** : Achiever's Section (10 Q.)
4. All questions are compulsory. There is no negative marking. Use of calculator is not permitted.
5. There is only ONE correct answer. Choose only one option for an answer.
6. To mark your choice of answer by darkening the circle on the OMR sheet, use **black ball point pen** only.

E.g.

**Q.16. In the water cycle condensation is the process of**

- A. Water vapour cooling down and turning into liquid    B. Ice warming up and turning into a liquid  
C. Liquid cooling down and turning into ice                      D. Liquid warming up and turning into water vapour

As the correct answer is option A, you must darken the circle corresponding to option A on the OMR sheet as shown in the figure

16. ● ○ ○ ○

7. Rough work should be done in the blank space provided in the booklet
8. Return the OMR sheet to the invigilator at the end of the exam.

**SECTION – I – GRAMMAR AND VOCABULARY**

1. "Anna, answer the door." is an example of what kind of sentence?  
 A. Declarative B. Imperative C. Interrogative D. Exclamatory
  
2. The storm uprooted the eight-foot tree. Identify the underlined part of speech.  
 A. Adjective B. Conjunction C. Preposition D. Pronoun
  
3. Select the suitable prefix for the given word.  
 \_\_\_\_\_fortunately  
 A. Un B. Dis C. Im D. In
  
4. I'm a good student, \_\_\_\_\_ ? (Choose the appropriate question tag.)  
 A. Amn't I B. Am I C. Is I D. Aren't I
  
5. Select the appropriate verb to complete the sentence:  
 Neither the cat nor the dog \_\_\_\_\_ allowed inside the house.  
 A) is B) are C) am D) be
  
6. Convert the given sentence into passive voice:  
 "They are building a new bridge."  
 A) A new bridge has been built by them.  
 B) A new bridge is being built by them.  
 C) A new bridge was built by them.  
 D) A new bridge will be built by them.
  
7. Identify the sentence in the past perfect tense.  
 A) I will finish my work before lunch.  
 B) She has already read that book.  
 C) By the time I arrived, they had already left.  
 D) The train leaves at 9:00 AM.
  
8. Select the appropriate determiner for the blank in the sentence:  
 "She wants to buy \_\_\_\_\_ new dress for the party."  
 A) a B) an C) the D) some
  
9. Which modal verb correctly completes the sentence?  
 "I \_\_\_\_\_ finish my homework before going out to play."  
 A) must B) should C) could D) would

10. Which phrase functions as the subject in the following sentence? "To complete the project on time is our main goal."

- A) Prepositional Phrase  
B) Gerund Phrase  
C) Infinitive Phrase  
D) Appositive Phrase

11. Choose the sentence that uses the superlative degree of comparison.

- A) The elephant is larger than the giraffe.  
B) This is the hottest day of the year.  
C) My dog is as friendly as your cat.  
D) The mountain is taller than the hill.

12. In which sentence verb plays the role of gerund?

- A) The dog was barking loudly.  
B) Swimming is my favorite sport.  
C) She quickly solved the puzzle.  
D) The bird flew across the sky.

13. Choose the correct homophone for the sentence: "I need to \_\_\_\_ down and take a rest."

- A) Lye  
B) Lei  
C) Lay  
D) Lie

14. Select the appropriate indirect speech for the sentence:

- "I have never been to Paris before," he said.  
A) He says that he has never been to Paris before.  
B) He says that he was never been to Paris before.  
C) He says, "I have never been to Paris before."  
D) He said that he had never been to Paris before.

15. One of the novels on the shelf \_\_\_\_ missing.

- A) is  
B) are  
C) were  
D) am

16. Transform the sentence into the active voice: "A mysterious message has been received by the detective."

- A) The detective receives a mysterious message.  
B) A mysterious message is being received by the detective.  
C) The detective has received a mysterious message.  
D) A mysterious message had been received by the detective.

17. Change the sentence into reported speech.

- "Run faster!" the coach shouted.  
A) The coach shouted to run faster.  
B) The coach shouted at me to run faster.  
C) The coach shouted at running faster.  
D) The coach shouted faster running.

18. What is the passive voice of sentence: "Complete the assignment!"?

- A) Let the assignment be completed.
- B) The assignment must be completed by you.
- C) You are completing the assignment.
- D) Complete by you the assignment.

19. Identify the grammatically correct sentence.

- A) All of the furnitures in the room are damaged.
- B) All of the furnitures in the room is damaged.
- C) All of the furniture in the room are damaged.
- D) All of the furniture in the room is damaged.

20. The collection of rare coins, as well as the valuable paintings, \_\_\_\_\_ on display at the museum.

- A) is
- B) are
- C) am
- D) be

**SECTION – II – COMPREHENSION**

**Read the passage given below and answer the questions from 21 to 25.**

In a quaint little village, there was a magical butterfly garden that enchanted everyone who visited. The garden was a burst of colors, with vibrant flowers swaying in the breeze and butterflies fluttering around like living rainbows. Children from the village often gathered there to witness the mesmerizing dance of these delicate creatures.

One sunny day, Mia, a curious 8th grader, decided to explore the butterfly garden. As she strolled through the winding paths, a kaleidoscope of butterflies surrounded her. Mia marveled at their intricate patterns and diverse hues. She noticed some butterflies sipping nectar from the flowers, while others engaged in a delightful game of chase in the air.

Mia sat on a bench, observing the enchanting scene. Suddenly, a question popped into her mind: How many types of butterflies lived in the garden?

21. What enchanted everyone in the village?

- A) A magical river
- B) A butterfly garden
- C) A mysterious forest
- D) A colorful marketplace

22. Who decided to explore the butterfly garden?

- A) Emma
- B) Jake
- C) Mia
- D) Ethan



23. What were the butterflies doing in the garden?  
A) Dancing  
B) Sleeping  
C) Running  
D) Biting
24. Where did Mia sit to observe the butterflies?  
A) On a swing  
B) On a rock  
C) On a bench  
D) On the grass
25. What question popped into Mia's mind?  
A) How many flowers were in the garden?  
B) How tall were the trees in the garden?  
C) How fast can butterflies fly?  
D) How many types of butterflies lived in the garden?

**Read the passage given below and answer the questions from 26 to 30.**

Once upon a time, in a small village named Greenridge, there lived a curious boy named Sam. Sam loved exploring the nearby forest, where tall trees stood like ancient guardians. One day, while wandering deep into the woods, he stumbled upon a mysterious cave entrance.

As Sam entered the cave, he discovered a hidden world filled with sparkling crystals and glowing mushrooms. Mesmerized by the beauty, he continued exploring. Suddenly, he heard a faint sound, like a gentle melody. Following the sound, Sam found a magical flute lying on a moss-covered rock.

Sam decided to play the flute, and to his surprise, the animals of the forest gathered around him, enchanted by the music. Birds chirped in harmony, rabbits hopped joyfully, and butterflies danced in the air. The flute had the power to bring harmony to the forest.

26. Where did Sam live?  
A) Bluevale    B) Greenridge    C) Redwood    D) Yellowfield
27. What did Sam find in the forest cave?  
A) Treasure chest    B) Mysterious door  
C) Magical flute    D) Old map
28. What did the flute do when Sam played it?  
A) Attracted animals    B) Summoned a storm  
C) Made the forest dark    D) Created a loud noise

29. How did the animals react to the flute's music?

- A) They ran away                      B) They fell asleep  
C) They gathered around happily    D) They started fighting

30. What word can be used to describe the forest in the passage?

- A) Noisy                      B) Colorless                      C) Deserted                      D) Enchanted

**Read the passage given below and answer the questions from 31 to 35.**

Dolphins are amazing creatures that live in oceans around the world. They are known for their intelligence and friendly nature. Dolphins are mammals, and like humans, they need to come to the surface to breathe. They communicate with each other using a series of clicks and whistles. Dolphins are also known for their playful behavior, often seen jumping and flipping out of the water.

Once upon a time, in a small coastal village, a group of children spotted a friendly dolphin near the shore. The children were excited and gathered around the water's edge to get a better look. The dolphin seemed to enjoy the company of the children, swimming closer and even doing tricks in the water.

31. What kind of animals are dolphins?

- A) Fish                      B) Mammals                      C) Reptiles                      D) Birds

32. How do dolphins communicate with each other?

- A) Bark                      B) Roar                      C) Clicks and whistles                      D) Hiss

33. Where did the children spot the friendly dolphin?

- A) Forest                      B) Desert                      C) Coastal village                      D) Mountains

34. What do dolphins need to do like humans?

- A) Fly                      B) Hibernate  
C) Come to the surface to breathe                      D) Dig burrows

35. What behavior are dolphins known for?

- A) Sleeping all day  
B) Being aggressive  
C) Hiding from humans  
D) Playful behavior

Read the passage given below and answer the questions from 35 to 40.

One sunny morning, a group of excited Class 6 students embarked on a school trip to the local zoo. The children were filled with anticipation as they entered the colorful gates, eager to explore the diverse world of animals.

As they walked along the meandering paths, the students encountered various enclosures housing animals from different continents. The first stop was the aviary, where colorful birds flitted about in a riot of hues. The children marveled at the graceful movements of the peacocks and the chattering parrots.

Next, they visited the reptile house, where slithering snakes and basking turtles captured their attention. The guide explained fascinating facts about each creature, making the learning experience both entertaining and educational.

In the mammal section, the children were enthralled by the playful antics of the monkeys and the majestic presence of the lions and tigers. The zookeepers conducted feeding sessions, allowing the students to witness the animals' natural behaviors up close.

The highlight of the trip was the penguin exhibit. The adorable waddling creatures amused everyone, and the children couldn't help but giggle at their antics in the water.

After a day filled with excitement and learning, the tired but happy students gathered for a group photo near the zoo's exit. The trip left them with lasting memories and a newfound appreciation for the incredible variety of wildlife.

36. What was the first section the students visited at the zoo?

- A. Reptile House                      B. Mammal Section  
C. Aviary                                 D. Penguin Exhibit

37. Where did the children see colorful birds like peacocks and parrots?

- A. Reptile House                      B. Mammal Section  
C. Aviary                                 D. Penguin Exhibit

38. What fascinated the students in the mammal section?

- A. Snakes                                 B. Monkeys  
C. Penguins                               D. Turtles

39. What exhibit was considered the highlight of the trip?

- A. Reptile House                      B. Mammal Section  
C. Aviary                                 D. Penguin Exhibit

40. How did the trip leave the students feeling?
- A. Tired but happy                      B. Bored and exhausted  
C. Disappointed and sad                D. Frustrated and annoyed

**SECTION – III – ACHIEVER’S**

**Read the passage given below and answer the questions from 41 to 45.**

In the ethereal glow of the crescent moon, a clandestine gathering unfolded at the precipice of an ancient forest. The enigmatic murmurs of the wind harmonized with the elusive whispers of the trees, creating an ambiance of mystique and secrecy. Within this clandestine assembly, a council of wise beings convened, their countenances veiled in shadows as if guarding the secrets of centuries past.

The air was pregnant with an intangible tension, akin to the subtle rustle of leaves before an impending storm. As the council deliberated, their discussions traversed realms of metaphysics and arcane knowledge, unraveling the very fabric of existence. The moon, a silent witness to the profound discourse, cast its silvery light upon the assembly, accentuating the gravity of their exchanges.

In the midst of this esoteric conclave, an ancient tome surfaced, its pages adorned with cryptic symbols and forgotten languages. It held the key to unlocking the mysteries of time and space, a codex of unparalleled wisdom guarded zealously by the custodians of the arcane.

41. What atmosphere prevailed at the clandestine gathering?
- A) Joyful                                      B) Mysterious  
C) Chaotic                                     D) Festive
42. What did the enigmatic murmurs of the wind harmonize with?
- A) Laughter                                  B) Silence  
C) Shouts                                      D) Whispers of the trees
43. How were the countenances of the wise beings described?
- A) Veiled in shadows                      B) Brightly lit  
C) Transparent                                D) Radiant
44. What did the ancient tome hold?
- A) Recipes                                     B) Blank pages  
C) Wisdom and secrets                      D) Poetry

45. Which celestial body witnessed the profound discourse?

- A) Sun                                      B) Moon  
C) Star                                      D) Comet

46. A writer must not convey information with \_\_\_\_\_

- A) Precision                                      B) Clarity  
C) Randomness                                      D) Truth

47. For the given statement, choose the right situation: Excuse me could you put your bag in the overhead locker?

- A) On a plane.                                      B) Visiting an organization.  
C) Meeting a visitor at the airport.                                      D) Getting a cab

48. The given conversation has mixed up sentences. Reorder them correctly and select the correct option:

- a. What was it about?  
b. Corporal punishment in Indian schools. Did you see it?  
c. No, I didn't see the paper yesterday.  
d. There was a good article in yesterday's paper  
A) d, a, b, c                                      B) a, d, b, c  
C) b, d, a, c                                      D) a, b, d, c

49. Choose the best answer from the options given below:

You are to welcome the visitors for the conference being held at your institute. You will say \_\_\_\_\_.

- A) It is good that you have come to attend the conference  
B) I'd like to welcome you all to our institute. It's a pleasure to have you here  
C) You will find that the conference will widen your mental horizon  
D) It'll be a great experience

50. Choose the best answer from the options given below:

Krishna walks in a shoe store. He wants to buy a pair of shoes for himself. His size is seven. Raman, the sales boy is not sure. What should be his reply?

- A) Number seven is not much in demand. Try number eight.  
B) Let me see if number six fits you.  
C) I'm not sure. I can't find them on the rack. But let me check in the storeroom.  
D) Both B and C





Space for rough work.



SHRADDHA OLYMPIAD QUEST

**MATHS**

For Std. 3, 4, 5, 6, 7, 8, 9



SHRADDHA OLYMPIAD QUEST

**SCIENCE**

For Std. 3, 4, 5, 6, 7, 8, 9



SHRADDHA OLYMPIAD QUEST

**ENGLISH**

For Std. 3, 4, 5, 6, 7, 8, 9



SHRADDHA OLYMPIAD QUEST

**MAT**

For Std. 3, 4, 5, 6, 7, 8, 9



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