



# UNIFIED COUNCIL

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## SLSTSE

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### STATE LEVEL SCIENCE TALENT SEARCH EXAMINATION

CLASS - 4

Question Paper Code : **US757**

#### KEY

1. B	2. D	3. B	4. C	5. A	6. C	7. B	8. C	9. B	10. A
11. A	12. C	13. B	14. D	15. D	16. B	17. A	18. C	19. B	20. A
21. B	22. D	23. C	24. D	25. A	26. D	27. B	28. B	29. C	30. A
31. D	32. B	33. C	34. D	35. A	36. B	37. C	38. B	39. A	40. A
41. B	42. B	43. A	44. D	45. D	46. A	47. A	48. C	49. C	50. A
51. A	52. A	53. A	54. D	55. A					

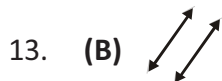
#### SOLUTIONS

##### MATHEMATICS

- (B) Difference =  $9651 - 1569 = 8082$
- (D) Required number =  $54 + 58 = 112$
- (B)  $90^\circ$
- (C) A year has 52 weeks
- (A) Male population  
 $= 1,23,456 - 789 = 1,22,667$
- (C) If he selects all least price articles then 5 articles cost =  $\text{₹ } 5 \times \text{₹ } 2 = \text{₹ } 10$   
If he selects all highest price articles  
5 articles cost =  $5 \times \text{₹ } 6 = \text{₹ } 30$   
 $\therefore$  Cost of articles lie between  $\text{₹ } 9$  and  $\text{₹ } 31$
- (B) Mango trees =  $480 \times \frac{1}{2} = 240$

- coconut trees =  $480 \times \frac{3}{8} = 180$   
Number of guava trees  
 $= 480 - 240 - 180 = 60$
- (C)  $100 \times 1000 \times 0 = 0$
- (B) Number of children can be  
Vaccinated =  $\frac{510}{5} = 102$
- (A)  $\frac{0}{35} = 0$
- (A) Dhanush's height =  $\frac{3}{4} \times 160 = 120$  cm  
Karthik's height = 155 cm  
Karim's height =  $\frac{4}{5} \times 155 = 124$  cm  
 $\therefore$  Dhanush is the shortest

12. (C) 
$$\begin{array}{r} 2009\text{ g} \\ 5050\text{ g} \\ 480\text{ g} \\ \hline 7539\text{ g} \end{array}$$
  
 $= 7\text{ kg } 539\text{ g}$



14. (D)  $= \frac{7}{10} - \frac{3}{10} = \frac{4}{10} = \frac{2}{5}$

15. (D)  $1510 = \text{MDX}$

16. (B) Area = length  $\times$  breadth =  $4\text{m} \times 2.5\text{ m}$   
 $= 10\text{ sq m}$

17. (A)  $37 - 1 = 36$ ,  $50 - 2 = 48$ ,  $123 - 3 = 120$   
 Greatest number that divides 36, 48 & 120 is 12

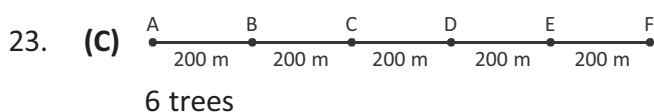
18. (C) Number of students in the class  
 $= 14 + 16 - 5 + 4$   
 $= 29$

19. (B) Cost of one litre milk =  $\text{₹}8 \times 2 = \text{₹}16$   
 $\therefore$  Cost of 30 litres milk =  $\text{₹}16 \times 30 = \text{₹}480$

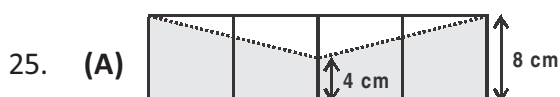
20. (A)  $1729 [6 + 3 + 1] = 1729 \times 10 = 17290$   
 (OR)  $1729 \times 6 + 1729 \times 3 + 1729$   
 $= 10,374 + 5,187 + 1,729 = 17290$

21. (B) Required product =  $3 \times \frac{1}{4} = \frac{3}{4}$

22. (D) 2, 3, 5, 6, 10, 15 are factors of 30



24. (D) 2 kg 400 g



Given, area of each square =  $64\text{ cm}^2$

The unshaded part of 4 squares add upto 1 square.

So, no. of shaded squares =  $4 - 1 = 3$

$\therefore$  Area of shaded part =  $3 \times 64\text{ cm}^2 = 192\text{ cm}^2$

## GENERAL SCIENCE

26. ( ) All materials given can be metals.
27. (B) A puddle of water gets evaporated on a sunny day.
28. (B) Food obtained from grass family are wheat and rice.
29. (C) A solid becomes a liquid.
30. (A) Coloration or concealment by making animals or objects hard to see is called camouflage.
31. (B) Lion is a predator.
31. (D) Stem part of the plant transports water to all other parts of the plant.
32. (B) Lion is a predator.
33. (C) Leaves make food for the plant.
34. (D) Consumers depends on plants for their food and oxygen.
35. (A) The planets in our solar system all orbit the sun.
36. (B) The three states solids, liquid and gaseous of matter are solids, liquids and gas. Steam is a gas, juice is a liquid and pencil is a solid.
37. (C) Venus is the planet closest to the sun. It is called morning and evening star.
38. (B) The roots of a plant absorb water and dissolved mineral salts. Water and dissolved mineral salts move up to other parts of the plant through water-carrying tubes (xylem).
39. (A) Egg  $\rightarrow$  larva  $\rightarrow$  pupa  $\rightarrow$  adult.
40. (A) The following pairs shows breathing organs in organisms.
41. (B) Large intestine absorbs water from indigested food.
42. (B) Leaving lights on does not help to conserve energy.
43. (A) Waning means that it is getting smaller third quarter or moon disappears from view entirely at new moon.
44. (D) The small tree does not grow healthy due to lack of light.
45. (D) The standard units of length in ascending order are millimetre, centimetre, metre and kilometre.

46. (A) Roots of the plants help it to keep of fix in the ground.
47. (A) The heart is the organ that pumps blood through blood vessels to all parts of our body.
47. (C) Like trees, a shrub has woody stem that grows upright. However, a shrub has a much shorter and thinner stem than a tree.
48. (C) Food carrying tubes (Phloem) water carrying tubes Cxylem are present in the stem of a shrub.
49. (C) Bat and owl. Active during night called as nocturnal animals.
50. (A) Degrees celsius is the unit used to measure the temperature of a body.
51. (A) Moon takes one month to complete one cycle of phases.
52. (A) A weather cock direction helps to know wind.
53. (A) Process Z is photosynthesis.  
Plants including carnivorous plants and non-flowering plants can carry out photosynthesis.  
Plants carry out photosynthesis because they have chlorophyll, the green pigment that traps light energy from the Sun. the light energy is required to combine carbon dioxide and water into sugar and oxygen. [Animals and fungi do not carry out photosynthesis because they do not have chlorophyll.]
54. (D) A pair of scissors is an example of a leven.
55. (A) The adaptations given in the question are seen in desert plants.

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**THE END**

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