



**UNIFIED COUNCIL**

An ISO 9001:2008 Certified Organisation

**nstse**


Test • Assess • Achieve

**NATIONAL LEVEL SCIENCE TALENT SEARCH EXAMINATION**

**Paper Code: UN 415**

**Solutions for Class : 3**

**Mathematics**

1. (C)  $0 \times 18 = 0$   
 $0 \div 18 = 0$   
So \* should be replaced by  $\times$  or  $\div$ .
2. (C) There are 4 persons to share the pizza equally. Hence, it should be sliced into 4 equal pieces.
3. (B) The smallest 3– digit number formed using the given digits is 306.
4. (D) 3 hrs 30 min later 8: 15 a.m. is 11: 45 a.m.
5. (A) 1 litre = 1000 ml
6. (A)   
Hence, Ankit needs atleast 12 dots to have 4 dots along each side of the rectangle.
7. (D) The given kite is divided into 4 equal parts. Hence, the best way to describe the division is fourths.
8. (A) 1 rupee is equivalent to two 50 paise coins. Therefore number of 50 paise coins that can be changed for a 5 rupee note  
 $= 2 \times 5 = 10$
9. (B) 169 is not equal to 196;  $187 > 186$ ;  
 $159 > 158$  and  $122 < 123$ .  
Hence, option (B) is a true statement.
10. (C)  $4800 - 6 = 4794$
11. (B)  $186 > 110$  and  $110 < 121$   
 $\therefore 186 > 110 < 121$

12. (A)

$$\begin{array}{r} 574 \\ \times 7 \\ \hline 4018 \end{array}$$

↓  
Hundreds place

Therefore, the place of 0 in the product is hundreds.

13. (C) 3 out of 5 pieces of the cake are given to Suresh's Sister.

$\therefore$  No. of pieces of cake eaten by Suresh = 2

$\therefore$  The required fraction is  $\frac{2}{5}$ .

14. (A) 60 seconds = 1 minute  
125 seconds =  $125 \div 60$   
 $= 2$  minutes 5 seconds

15. (D) While comparing like fractions, the fractions with the smallest numerator is the smallest.

16. (C) Number of ₹ 5 coins required to make a sum of ₹ 100

$$= \frac{\text{₹ } 100}{\text{₹ } 5} = 20$$

17. (A)  $95 \times 5 = 475$   
 $95 + 5 = 100$   
 $95 - 5 = 90$   
 $95 \div 5 = 19$

Therefore '95  $\times$  5' is the greatest among all the given ones.

18. (C)

$$\begin{array}{r} 826 \\ - 545 \\ \hline 281 \end{array} \quad \begin{array}{r} 281 \\ + 328 \\ \hline 609 \end{array}$$

19. (B)  $14 \times 5 = 70$   
 $10 \times 7 = 70$   
 So, the missing number is 7.
20. (D) The largest even number that can be formed using the given digits is 9652.
21. (B) Giri's age = 9 years 7 months  
 Age of Giri's brother  
 = 2 years 8 months  
 $\therefore$  Their total age = 9 years  
 7 months + 2 years 8 months  
 = 12 years 3 months
22. (C) The smallest 3 - digit number is  $100 = 1$  hundreds + 0 tens + 0 ones
23. (C)  $\frac{7 \times 5}{8 \times 5} = \frac{35}{40}$ ;  $\frac{7 \times 2}{8 \times 2} = \frac{14}{16}$ ; and  
 $\frac{7 \times 9}{8 \times 9} = \frac{63}{72}$
24. (C) I. Choice: One 5 – rupee coin + One 1 – rupee coin + One 25 – paise coin.  
 II. Choice: One 5 – rupee coin + Two 50 – paise coins + One 25 – paise coin  
 III. Choice: Two 2 – rupee coins + Two 1 – rupee coins + One 25 – paise coin.  
 IV. Choice: Two 2 rupee coins + One 1– rupee coin + Two 50 – paise coins + One 25 – paise coin.
25. (B)  $120 \div 8 = 15$   

$$\begin{array}{r} 8 \overline{)120} 15 \\ \underline{-8} \phantom{0} \\ 40 \\ \underline{-40} \\ 0 \end{array}$$
26. (D) The least number to be multiplied with an odd number to make it even is 2.
27. (B) The numbers from 10 to 99 have two digits.  
 The required number of two digit numbers  
 = (The greatest 2–digit number) – (The least 2–digit number) + 1  
 =  $99 - 10 + 1$   
 =  $89 + 1 = 90$

28. (D) 13 tens = 130  
 $700 + 130$   

H	T	O	
7	0	0	
+	1	3	0
<hr/>			
8	3	0	
29. (D) A tank is  $\frac{5}{8}$  full.  
 $\therefore$  Part of the tank that is empty =  $\frac{8}{8} - \frac{5}{8}$   
 =  $\frac{8-5}{8} = \frac{3}{8}$ .
30. (B)  $2868 = 2000 + 800 + 60 + 8$   
 $8092 = 8000 + 90 + 2$   
 $6904 = 6000 + 900 + 4$   
 $6425 = 6000 + 400 + 20 + 5$   
 $\therefore$  By using the value of the digit 2 in the given numbers; 2022 (i.e., 2000 + 2 + 20) is formed.
31. (A) Today  $\rightarrow$  Thursday  
 Yesterday  $\rightarrow$  Wednesday  
 Day before yesterday  $\rightarrow$  Tuesday
32. (A) Length of the wire = 6 m = 600 cm  
 Length of one of the pieces  
 = 3 m 8 cm = 308 cm  
 $\therefore$  Length of the other piece  
 = 600 cm – 308 cm  
 = 292 cm  
 = 2 m 92 cm
33. (C) ₹ 150 – ₹ 70 = ₹ 80
34. (C)  $1000 - 430 = 570$   
 = 57 tens
35. (C)  $252 \div 7 = 36$  means  
 $36 \times 7 = 252$ .
36. (D) There are 5 sets of 2 fruits in each. So, the required multiplication sentence is  $5 \times 2 = 10$ .
37. (D)  $\square \square \square \square$  is not the correct way to show thirty-five.
38. (B) 11 a.m. – 6 a.m. = 5 hours

39. (D)  $12 \div 4 = 3$   
 $24 \div 4 = 6$   
 $\therefore 36 \div 4 = 9$
40. (B) 17 thousands 8 hundreds = 17800  
 9 thousands 4 hundreds = 9400  
 Their difference = 17800 – 9400  
 = 8400

**General Science**

41. (B) Air is a non living thing.
42. (B) The function of the flower is to produce fruits and seeds.
43. (A) Animal that eat both plant and animal products are called omnivores.
44. (A) Water birds like crane is called a wading bird.
45. (C) Earthworm dig tunnels in the soil and live in them. While doing this, they turn and loosen the soil. Hence called farmer's friend.
46. (B) Water cycle is important to us to recycle as it recycles water from the earth to the sky.
47. (A) Water exists in three forms solid, liquid and gas.
48. (C) Nervous system controls all our activities of seeing, hearing, learning, thinking and feeling.
49. (A) Collar bone, rib, knee cap and back bone are the parts of skeletal system.
50. (D) Red, yellow and green are the three colours that are to be used by Ram to paint the model of a traffic signal.
51. (A) In the given figure the tiny openings marked 'X' are called stomata. They help in exchange of gases.
52. (A) A mango tree is classified as a plant because, it can make its own food.
53. (A) A flower develops into fruits. Fruits contain seeds in it. A seed germinates and grows into an young plant.
54. (B) The height of the plant is measured in cm. At the end of 4 weeks, the height of the plant is 20 cm.
55. (B) The given figure is of Banyan tree.
56. (B) Doors and windows are made from the wood made from branches and trunk of a tree.
57. (B) Mercury is the nearest planet to the sun. It is the hottest planet.
58. (A) On heating liquid turns into vapour. The process in which liquid turns into vapour is called evaporation.
59. (D) Oesophagus is a part of the human digestive system.
60. (A) Skull is called bony box. It protects the brain. It consist of bones which are fused firmly together to form a shell like structure.
61. (D) Cow, buffalo and goat are mammals, they provide us milk and are also called domestic animals.
62. (B) Heart pumps oxygenated blood to all parts of the body.
63. (C) A red cross indicates medical care.
64. (C) Nose is a sense organ that smells things.
65. (D) Leaves make food for the plant, it releases oxygen through tiny openings called stomata.
66. (A) The earth takes 24 hours or 1 day to rotate on its own axis.
67. (C) Pineapple is a edible fruit and a castor is an inedible fruit.
68. (A) Igloo is a house made of snow. Eskimos live in igloos.
69. (A) Growth and reproduction occur in both plants and animals.
70. (B) A measuring tape is the best thing for measuring the length of a classroom. Some people may have bigger palms and foot span and give different measurements.
71. (D) Animals move from place to place in search of food, water, shelter and to get protection from danger.
72. (A) On boiling, water changes to form water vapour or gaseous form this process is called evaporation.
73. (D) Birds are the only animals that have feathers. Wings and legs are found also in insects.
74. (D) In the given food chain the animal 'P' must be a herbivore. Deer is a herbivore.
75. (D) Living things like green plants produces their own food.