



**NATIONAL LEVEL SCIENCE TALENT SEARCH EXAMINATION (UPDATED)**

**CLASS - 3**  
**Question Paper Code : UN484**

**KEY**

|       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1. A  | 2. B  | 3. A  | 4. B  | 5. B  | 6. D  | 7. C  | 8. D  | 9. A  | 10. B |
| 11. A | 12. A | 13. D | 14. B | 15. C | 16. A | 17. C | 18. D | 19. C | 20. D |
| 21. B | 22. D | 23. B | 24. B | 25. C | 26. D | 27. A | 28. B | 29. C | 30. B |
| 31. C | 32. C | 33. D | 34. D | 35. C | 36. D | 37. B | 38. C | 39. B | 40. C |
| 41. B | 42. D | 43. D | 44. D | 45. C | 46. D | 47. B | 48. C | 49. A | 50. D |
| 51. A | 52. D | 53. D | 54. C | 55. D | 56. A | 57. C | 58. A | 59. C | 60. B |

**SOLUTIONS**

**MATHEMATICS**

01. (A)  $117 - 12 = 105$   
The teacher gave away 105 sweets.  
 $105 \div 3 = 35$   
He had 35 pupils.

02. (B)  $\frac{7}{8} = \frac{7 \times 2}{8 \times 2} = \frac{14}{16}$

|   |      |   |   |     |
|---|------|---|---|-----|
|   | 3 km | 5 | 0 | 2 m |
| - | 1 km | 9 | 4 | 6 m |
|   | 1 km | 5 | 5 | 6 m |

03. (A)

04. (B) Number of eggs with egg seller = 5274  
Number of eggs sold on Monday and Tuesday =  $892 + 974 = 1866$   
Number of eggs sold on Wednesday =  $5274 - 1866 = 3408$

05. (B)

|   |   |       |   |
|---|---|-------|---|
|   |   | 4     | 2 |
| 4 | √ | 1 6 8 |   |
|   |   | 1 6   |   |
|   |   | 8     |   |
|   |   | 8     |   |
|   |   | 0     |   |

06. (D) A quarter past twelve.
07. (C)  $408 = 400 + 8 = 40 \times 10 + 8 \times 1$   
No of tens in 408 = 40
08. (D) The missing value on the number line is 100  
i.e.,  $240 - 70 - 70 = 240 + 140 = 100$
09. (A) No. of tablets prescribed to Vani = 45  
Vani has to finish tablets in 5 days  
 $= 45 \div 5 = 9$  tablets per day  
No. of times she has to take tablets = 3  
No. of tablets Vani has to take each time  
 $= 9 \div 3 = 3$
10. (B) No. of people in the shopping centre = 874  
No. of women = 578  
No. of men =  $578 - 296 = 282$   
There are 282 fewer men than women.
11. (A) No. of rows = 3  
No. of carrots in each row = 10  
 $= 10 \times 3 = 30$   
No. of carrots in each bag = 9  
No. of carrots left unpacked =  $30 \div 9 = 3$
12. (A) 8
- 
13. (D) Amount spent on a toy car = ₹98  
Amount spent on a head phones  
 $= ₹98 \times 3 = ₹294$   
Amount spent on 5 stickers  
 $= ₹2 \times 5 = ₹10$   
Total amount spent  
 $= ₹98 + ₹10 + ₹294 = ₹402$
14. (B) Given total mass of a chair and a table = 9622 g  
Mass of the table is 6234 g heavier than the chair  
 $= 9622 \text{ g} - 6234 \text{ g} = 3388 \text{ g}$

- Mass of the chair =  $3388 \text{ g} \div 2 = 1694 \text{ g}$   
Mass of the table  
 $= 6234 \text{ g} + 1694 \text{ g} = 7928 \text{ g}$
15. (C) Capacity of the given container  
 $= 3 \text{ l}$   
Capacity of the water poured away from the container  
 $= 3 \text{ l} - 1 \text{ l } 250 \text{ ml} = 1 \text{ l } 750 \text{ ml}$
16. (A) Mass of James = 60 kg  
Mass of Priya =  $60 \div 6 = 10 \text{ kg}$
17. (C) Number of cookies in each bag = 4  
Number of bags she need = 10  
Number of cookies with Mrs Divya  
 $= 4 \times 10 = 40$
18. (D)  $20 = \boxed{2} \times 10$
19. (C)  $\frac{2}{9} + \frac{7}{9} = \frac{9}{9}$
20. (D)  $45 \div 5 = 9$   
 $10 - 1 = 9$   
 $\boxed{1}$  less than 10
21. (B) Distance traavelled by Rishi on cycle  
 $= 855 \text{ m}$   
Distance travelled by James on cycle  
 $= 855 \text{ m} - 178 \text{ m} = 677 \text{ m}$
22. (D)  $3 \star = 12$   
 $\star = 12 \div 3 = 4$   
Then  $5 \star = 5 \times 4 = 20$
23. (B) Length of a ribbon = 100 cm  
Length of each strip = 20 cm  
No. of strips =  $100 \text{ cm} \div 20 \text{ cm} = 5$
24. (B) Tank A + Tank B + Tank C  
 $= 8 \text{ l} + 20 \text{ l} + 15 \text{ l} = 43 \text{ l}$
25. (C) Thirteen thousand = 13000  
Thirteen hundred and thirteen = 1313  
 $13000 + 1313 = 14313$

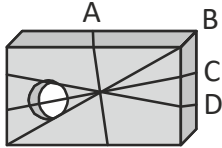
### GENERAL SCIENCE

26. (D) Y is an eagle have strong feet and claws to hold their prey while flying their claws are called talons and Y is sparrow a perching bird.
27. (A) When water is boiled, it gradually starts converting into water vapour. When a steel lid is held over it, the water vapour condense on it as water and moisture is visible on the inside of the lid.
28. (B) Soil contains water which on heating evaporates and condenses on the inside of the lid.
29. (C) Ice and snow are the solid forms of water.
30. (B) Tank > bucket > tumbler > spoon
31. (C) Moon is the only natural satellite of Earth. It has no life forms. Neil Armstrong was the first man to step on it. Jupiter and Mars are planets while Sun is a star.
32. (C) Knife, blade and broken glass can harm us.
33. (D) The house shown in the given figure is an igloo. It is made up of ice. It found in extremely cold places. So, sweater muffler and gloves can be worn by people living in such houses.
34. (D) For making toys, clayey soil is required which consists of fine particles with very little air space between them. It retains a lot of water and is good for making toys and pots. The soil found near a beach is sandy soil. It is not suitable for making toys as it has lots of spaces between its particles and cannot retain much water.
35. (C) Stars and Sun give out their own light.
36. (D) The arrows in the given diagram show the path taken by food prepared from leaves through stem.
37. (B) Option (B) is pedestrian crossing.
38. (C) Fern is a plant that makes its own food. Mould is a non green plant or fungi that is unable to make its own food.
39. (B) Brain controls all the activities performed by our body.
40. (C) In the given figure X, Y and Z are humus, clay and sand respectively. Y (clay) holds a lot of water but does not drain well. Z (sand) type of soil is found on beaches and deserts. Z (sandy) type of soil has a lot of spaces between its particles.
41. (B) During revolution, the Earth moves in an oval-shaped orbit. In the given picture the distance between Earth and Sun is maximum, hence little heat and light will be received by point X on Earth. Therefore the possible season at point X on the Earth will be winter.
42. (D) The given figure of food 'X' shows that it is rich in carbohydrates, hence is rice.
43. (D) X-Granite, Y-Chalk, Z-Pumice.
44. (D) Flower is the reproductive part of the plant.
45. (C) Frog is an amphibian that live both on land and in water.
46. (D) Dogs have strong canine teeth to tear flesh or meat.
47. (B) X is carrot.
48. (C) All the food chains begin with the plant. So, the given food chain will be arranged as C → A → D → B.
49. (A) The birds shown in the given picture are mynah, sparrow and crow. They all have three toes in the front and one at the back of their feet, which helps them to perch on a branch of a tree.
50. (D) Plants grow.
51. (A) Black gram and kidney beans are pulses.
52. (D) The labelled part P in the given figure represents small intestine. It is a long coiled tube that digests the food and absorbs nutrients from it. Undigested food is stored in the large intestine before it is thrown out as faeces.
53. (D) We eat flower of broccoli and cauliflower.

54. (C) A wood pecker belongs to group R, because it has short, hard and pointed beak to break open seeds and grains.
55. (D) Part X is a fruit part and Y is root part of the plant.

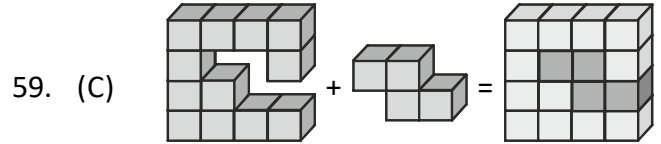
**CRITICAL THINKING**

56. (A)  $8 + 2 = 10$



57. (C) Letters R and V are overlapped not R and K. Hence option (C) is correct.

58. (A) First birthday – 1 teddy  
 Second birthday – 2 teddies  
 Third birthday – 3 teddies  
 .....  
 Seventh birthday – 7 teddies  
 $1 + 2 + 3 + 4 + 5 + 6 + 7 = 28$



60. (B) Option A : total count 22  
 Option B : total count 20  
 Option C : number 2 , less than 3  
 Option D: number less than 3

=====*The End*=====