



UNIFIED COUNCIL

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NATIONAL LEVEL SCIENCE TALENT SEARCH EXAMINATION (UPDATED)

CLASS - 4

Question Paper Code : UN444

KEY

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

SOLUTIONS

MATHEMATICS

- (B) $123 + 132 + 213 + 231 + 312 + 321 = 1332$
- (C) $6543210 - 1 = 6543209$
- (B) $30 = 6 \times 5$
- (D) Weight of 1079 books
 $= 1079 \times 68 \text{ g} = 73372 \text{ g}$
 \therefore Weight of 4 dictionaries
 $= 75,000 \text{ g}, -73,372 \text{ g}$
 $= 1628 \text{ g}$
Weight of each dictionary
 $= 407 \text{ g} = 0.407 \text{ kg}$

- (D) $21,734 - 20,001 = 1,733$
- (B) Priya's amount = $\frac{\text{₹ } 5892}{3} = \text{₹ } 1964$
 \therefore sheela's amount = $\text{₹ } 1964 \times 2 = \text{₹ } 3,928$
Remaining amount of sheela
 $= \text{₹ } 3928 - \text{₹ } 6520 = \text{₹ } 3276$
- (C) $1 + 3 + 5 + 7 + 9 + 11 + 13 + 15 + 17 + 19 = 10 \times 10 = 100$
- (C) $\text{MCDXVIII} = 1000 + 400 + 10 + 8 = 1418$
- (D) $\frac{15}{17} - \frac{11}{17} = \frac{15-11}{17} = \frac{4}{17}$

10. (D) $30 + 15 + 10 + 6 = 61$
11. (A) $46 \text{ kg } 750 \text{ g} - 28 \text{ kg } 850 \text{ g} = 17 \text{ kg } 900 \text{ g}$
12. (A) Red part lengths = $1\frac{2}{5}$ blue part = $\frac{7}{5}$
times blue $\frac{7}{5}$ blue + blue part = 5.52 m
 $\frac{12}{5}$ blue part = 5.52 m
Blue part length = $5.52 \text{ m} \times \frac{5}{12} = 2.3 \text{ m}$
13. (C) Perimeter = $2(5+5+7) \text{ cm} + 2(3+3+2) \text{ cm} + 2(3+2) \text{ cm}$
= $34 \text{ cm} + 16 \text{ cm} + 10 \text{ cm}$
= 60 cm
14. (D) $1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 = 36$
 $11 + 22 + 33 + 44 + 55 + 77 + 88$
= $11(1 + 2 + 3 + 4 + 5 + 7 + 8)$
= 11×30
= 330
 $\therefore 330 - 36 = 294$
15. (C) $\frac{2}{9}$ of book = 60 pages
number of pages of book = 60 pages
 $\times \frac{9}{2} = 270$ pages
16. (C) $50,348 + 3,289 = 53,637$
17. (D) $11\text{m} - \frac{23}{10}\text{m} - \frac{3}{5}\text{m} = \frac{110\text{m} - 23\text{m} - 6\text{m}}{10}$
= $\frac{81}{10}\text{m} = 8\frac{1}{10} \text{ m}$
18. (D) $8500 - 3,739 = 4,761$
19. (C) $12 + 4 + 30 = 46$
20. (C) $2\left[\frac{3}{5} + \frac{7}{8}\right] \text{ m} = 2\left[\frac{24+35}{40}\right] = \frac{59}{20} \text{ m}$
= $2\frac{19}{20} \text{ m}$
21. (D) $\frac{11}{15} - \frac{2}{15} - \frac{1}{15} = \frac{8}{15}$

22. (C) 640 is divisible by 8
23. (A) $\frac{3}{5} - \frac{11}{5} + \frac{7}{3} - \frac{2}{3} = \frac{9}{15} - \frac{33}{15} + \frac{35}{15} - \frac{10}{15}$
= $\frac{9+35-33-10}{15}$
= $\frac{44-43}{15} = \frac{1}{15}$

24. (A) Option A is sphere
25. (A) $0.2 < 0.22 < 2.2 < 2.22$

GENERAL SCIENCE

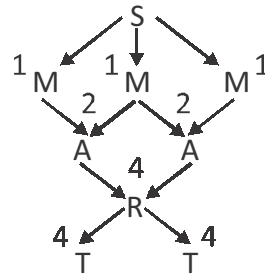
26. (A) Fur on animals skin helps to provide insulation and keep warm.
27. (B) Cactus & Croton plants can prepare their own food while Mushrooms cannot.
28. (A) Absorption of food takes place in small intestine.
29. (C) Pond plants do not need soil to grow.
30. (D) Plants of grass family provides us cereals used as food.
31. (B) 'X' in the given figure is liver.
32. (B) The teeth that are used for crushing food are called premolars.
33. (D) The kind of soil that does not allow the free circulation of air in it is clayey soil.
34. (B) On boiling or heating water change to gaseous form as water vapours.
35. (A) The larva of a housefly is called a maggot
36. (A) The protection of soil from washing away by eroding agents is called conservation.
37. (C) The least measurement that can be done accurately by using a standard scale is 1 millimetre.
38. (D) Venus can be seen only in the morning just before sunrise and evening just after sunset because it is in the direction of the sun.
39. (C) LPG, firewood and fruits contain organic substances that are a form of chemical energy.

40. (B) Milk is a liquid. Liquids has a fixed volume but no fixed shape ?
41. (C) a-3, b-2, c-1
Kaziranga National Park - Assam
Gir Forests - Gujarat
Bandipur National park - Karnataka
42. (D) Vitamins and minerals are called protective foods.
43. (C) Fishes take in oxygen dissolved in water.
44. (C) The occurrence of seasons on the earth is primarily because of the tilt of its axis.
45. (A) Vinegar is widely used as a preservative.
46. (B) The north and the south poles experience six months days and six months night. This is because of earth's tilt.
47. (C) Urea is used as a fertilizer.
48. (A) Crocodile reproduces by laying eggs.
49. (B) The lower two chambers of the human heart are called ventricles.
50. (C) Maize is a cereal crop. It s a seed stored food.
51. (B) The teeth marked 'X' are called pre-molar.
52. (B) Loam soil is best for plants. It contains equal amount of sand and clay.
53. (B) Carnivores are flesh eating animals. Canines help in tearing flesh.
54. (D) During photosynthesis plants take in carbon dioxide and give out oxygen.
55. (C) The following diagram represents a food chain.

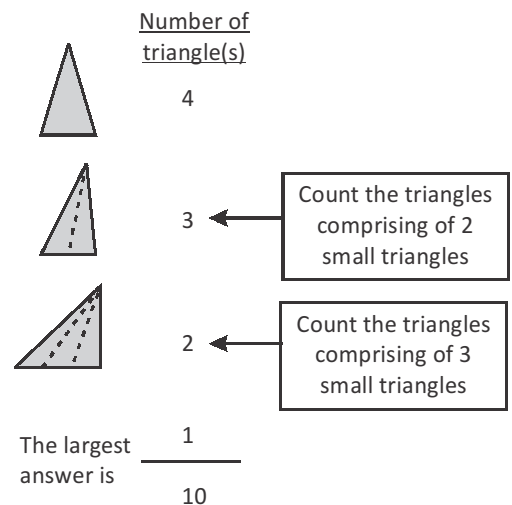
CRITICAL THINKING

56. (A) The symbols are mirror images of the numbers 1 to 6. Hence the answer is A. the mirror image of the number 6.

57. (B)



58. (C)



59. (B) A saddle is something one uses to sit on an animal, so it must have a seat (choice b). A saddle is often use on a horse (choice a), but it may be used on other animals. Stirrups (choice c) are often found on a saddles but may not be used. A horn (choice d) is found on Western saddles, but not English saddles, so it is not the essential element here.
60. (A) The final answer is:

	Vanilla	Mango	Chocolate
John	✓	✗	✗
Madhu	✗	✗	✓
Vasu	✗	✓	✗

THE END