UNIFIED COUNCIL

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NATIONAL LEVEL SCIENCE TALENT SEARCH EXAMINATION (UPDATED)

CLASS - 3
Question Paper Code : UN464

KEY

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

EXPLANATIONS

MATHEMATICS

01. (B) $2450 - 1200 = 1250$

02. (D) Spent on shopping $= 380 + 190 = ₹\ 570$

Spent on both $= 380 + 570 = ₹\ 950$

03. (B) $77 \div 7 = 11$

04. (D) $2310 \rightarrow 23$ hundreds 10 ones

05. (D) $214 \times 9 = 1926$

The digit in hundreds place is 9

06. (D) $\dfrac{6}{15}$ is not equivalent to $\dfrac{3}{5}$

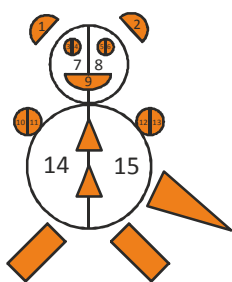07. (C) 4 hr 32 min $= (4 \times 60)$ min 32 min

$= 240$ min $+ 32$ min

$= 272$ minutes

08. (C) $500 + 8000 = 8500$

$8500 - 7000 = 1500$

09. (A) There are 3 thousands in 3947

10. (A) 5 thousands + 40 tens

$= 50$ hundreds + 4 hundreds

$= 54$ hundreds

11. (A) $6 \times 50 = 300$ pages

12.	(C)	Block weight = 8 × 2 × 7
		= 112 kg
13.	(C)	84 ÷ 7 [1 week = 7 days]
14.	(B)	(82 × 6) − (726 ÷ 6)
		= 492 − 121
		= 371
15.	(A)	280 + 280 − 60 = 500 cm
		= 5 m
16.	(D)	6000 − 4000 = 2000
		= 20 hundreds
17.	(C)	There are 20 cubes in the given solid

18. (A)

$$96 - 21 = 75$$
$$46 + 21 = \underline{67}$$
$$\underline{\quad 8 \quad}$$

19. (D) Sum of the ages now = 34 + 37 = 71

Six years ago sum will be = 71 − 2 × 6

= 71 − 12 = 59 years

20. (C) 500 + 200 = 700

700 ÷ 2 = 350

21. (C) 8 × 3 = 3 × 8

22. (D) 15 semicircles

23. (B) (334 − 40) ÷ 7

= 294 ÷ 7 = 42 cm

24. (B)

$$\begin{array}{r} 8\ 0\ 3 \\ -\ 4\ \boxed{4}\ 2 \\ \hline 3\ 6\ 1 \end{array}$$

25. (D) $\dfrac{1}{14} + \dfrac{2}{14} + \dfrac{4}{14} = \dfrac{1+2+4}{14}$
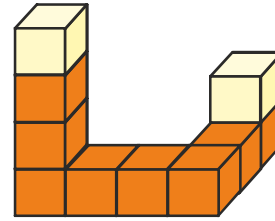
$= \dfrac{7}{14}$

GENERAL SCIENCE

26. (B) Sun is the main source of energy for all the living things. Plants directly depends upon the sunlight to make its food. Animals directly or indirectly depends upon plants for their food.

27. (C) Animals need air, food, and water from their environment in order to survive

28. (A) A - ii; B - i; C - iv; D-iii.

29. (C) Plants breathe through stomata.

30. (A) The beak of bird P is long, slender and straw shaped beak. It helps to drink nectar.

31. (D) A snail moves slowly.

32. (A) The fixed path followed by the Earth around the Sun is called its orbit.

33. (A) In the given food chain frog and snake are both prey and predators.

34. (D) Cloud is an example of a non-living thing.

35. (B) Chewing teeth is missing in snake.

36. (C) Sun and star produce their own light.

37. (A) Grasshoppers and cockroaches breathe through their air holes.

38. (A) Precipitation followed by evaporation caused the puddle form and then disappear.

39. (C) Handlens is used to closely observe an ant.

40. (D) Water from the earth's surface move back into the air due to evaporation.

41. (C) A cat is a mammal and the owl is a bird, but both animals rely on their night vision for survival.

42. (D) Sheep eat grass. Sheep is a herbivore.

43. (D) Living things reproduce.

44. (A) The moon changes its appearance as it revolves around the earth. The changes of moon is called phases.

45. (B) The figure given below shows life cycle of butterfly.

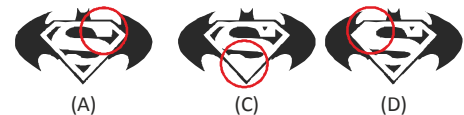| 46.	(A)	Beak X is used to obtain insects from tree trunk, beak Y is used for cracking seeds and beak Z is used for tearing meat.
47.	(C)	Skeleton supports the body. Brain is a organ that help us a thinking.
48.	(B)	Water can exist on Earth in the solid (ice, snow, iceberg, etc), liquid (tap water, rain water, seawater, etc) and gaseous states (water vapour and steam).
49.	(B)	The given organs are lungs. Lungs are organs of respiratory system.
50.	(A)	Bird in option (A) is Kiwi. Kiwi is a flightless bird.
51.	(B)	The time between waking up and midday is called morning
52.	(B)	The earth rotate once every 24 hours on its axis.
53.	(D)	The foot structure shown in option (D) is a webbed foot. The three toes in front of their foot are joined by a skin called web. Webbed feet act as paddle when they swim.
54.	(A)	A clock to note the time, to record the movements of insects.
55.	(D)	An eagle is a bird of prey. Birds of prey such as eagles, owls, folcons and hawks have sharp and strong claws or talons. These birds can also fly very well and have very good eyesight and/or acute hearing. They can spot their prey such as fish in water from a great height and catch one while in flight. Their hooked beaks are strong enough to tear the meat of their prey.

CRITICAL THINKING

56. (B) 8

57. (D) Friday = 1, 2

Saturday = 3, 4

Sunday = 5, 6

Monday = 7, 8

Tuesday = 9, 10

Wednesday = 11, 12

58. (A) 4 + 3 + 2 + 1 = 10

5 students − 10 handshakes.

59. (B)

60. (B) If C is taller than B, then we get C > B and C is shorter than D, then we get D > C. Thus we get the relation D > C > B.

Now, as all of B, C and D are shorter than A. This means A is the tallest person here. Thus, A > D > C > B.