

**UNIFIED COUNCIL**

Foundation for success

**UNIFIED CYBER OLYMPIAD (UPDATED)****CLASS - 4****Question Paper Code : 30119****KEY**

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

**SOLUTIONS****MENTAL ABILITY**

01. (D) 10, 31, 52, 73, 94

Total such numbers = 5

02. (C) Cost of pens :  $2 \times 47.50 = 95.00$ Cost of geometry boxes :  $3 \times 38.75 = 116.25$ Total cost =  $95 + 116.25 = 211.25$ 

Money he has = 200

Extra needed =  $211.25 - 200 = 11.25$ 

03. (C) 64 days in weeks

 $64 \div 7 = 9$  weeks 1 day

04. (B) Observe that

The distance between 0 and 1; 1 and 2 each is divided into 10 equal parts.

So, each part represents a length of one-tenth or 0.1

Now, count the number of parts from 1 to g  
There are 6 parts

This means that the point g is 6 parts to the right of 1 or 6 tenths after 1

Now, 1 and 6 tenths equals 1.6



Similarly, the decimal represented by the point h is 1.9

Now, let's find the difference between the decimals represented by the points g and h.

Notice that point h is 3 parts ahead of point g

Also, we know each part represents a length of one-tenth or 0.1

So, 3 parts is 3 tenths or 0.3

The difference between the decimals represented by the points g and h is 0.3

05. (D)  $87 \times 93 = 8091$   
Last digit = 1  
To make number end in 0 → add 9

06. (C) The place value is always larger than the face value except for the units place, where they are the same.  
The largest difference is in the thousands place.

07. (D) Aug & Nov does not have the same numbers of birthdays.

08. (D)  $7 \text{ kg} + 2 \text{ kg} = 9 \text{ kg}$  (Bananas)  
Apples =  $9 \text{ kg} \times 3 = 27 \text{ kg}$   
 $5 \text{ kg} + 16 \text{ kg} + 6 \text{ kg} = 27 \text{ kg}$

09. (B) Step 1: Compare P and Q  
Stick P is 40 cm shorter than Q  
Step 2: Compare R and Q  
Stick R is 60 cm longer than Q  
Step 3: Find difference between P and R  
From P to Q = 40 cm  
From Q to R = 60 cm  
Total difference =  $40 + 60 = 100 \text{ cm}$

10. (D) Factors are limited; multiples are infinite.

11. (A) First number  
Second number  
Third number  
 $360 - 40 - 40 = 240$   
3 units → 240  
1 unit →  $240 \div 3 = 80$

12. (A) Capacity of water, container A holds  
 $= 5 \text{ l } 50 \text{ ml} = 5050 \text{ ml}$   
Capacity of water, container B holds  
 $= 2790 \text{ ml}$   
 $= 5050 - 2790 = 2260 \text{ ml}$   
 $= 2 \text{ l } 260 \text{ ml}$

13. (D) N is a multiple of 4 and 3  
Multiple of 4: 4, 8, 12, 16, 20, 24, 28, 32, 36  
Multiple of 3: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 36, 39  
 $12 + 4 = 16$ ;  $24 + 4 = 28$ ;  $36 + 4 = 40$   
Only 28 is a multiple of 7  
Hence, N is 24

14. (B)

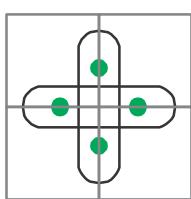
|   |  |
|---|--|
| $  \begin{array}{r}  5 \ 6 \ 8 \ 0 \ 9 \\  - 4 \ 8 \ \textcolor{red}{X} \ 4 \ 5 \\  \hline  1 \ 3 \ 2 \ 6 \ 4  \end{array}  $ | $9 - 5 = 4$ ; $10 - 4 = 6$ ; $8 - 1 = 7$ ;<br>$7 - X = 2$<br>$\therefore X = 5$<br>$  \begin{array}{r}  1 \ 3 \ 2 \ 6 \ 4 \\  - 8 \ 9 \ \textcolor{red}{Y} \ 8 \\  \hline  4 \ 2 \ 8 \ 6  \end{array}  $ |
|---|--|

$14 - 8 = 6$  ;  $15 - Y = 8$   
 $\therefore Y = 7$

15. (C) 6 chocolates per box →  $30 \div 6 = 5$  (works)  
5 chocolates per box →  $30 \div 5 = 6$  (works)  
8 chocolates per box →  $30 \div 8 = 3$  remainder 6 (does not work)  
10 chocolates per box →  $30 \div 10 = 3$  (works)

### REASONING

16. (B)  $10 \times 12 = 120 - 1 = 119$



17. (C)



18. (D) Letters: O, T, E, K  $\rightarrow$  Word  
= TOKEN  $\rightarrow$  First letter = T

20. (D)  $5 - 11 - 25 - 19 - 11 - 45 - 11$

BELIEVE codes :

B = 5

E = 11

L = 25

I = 19

E = 11

V = 45

E = 11



21. (D)

22. (C) First letters: Decreasing by 3 (W, T, Q, N, K, H)

Second letters: Increasing by 2 (H, J, L, N, P, R)

23. (A) Joey : A young kangaroo

Foal : A young horse

Cygnet : A young swan

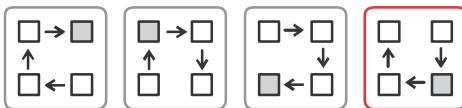
Gosling is young one of Goose

24. (C) Each figure has a shape with three arrows. In boxes A, B and D two arrows point out of the main shape and one arrow points into it. In box C two arrows are pointing into the main shape and only one is pointing out of it.

25. (B)  $\square = 7, \circ = 5$

$$7 - 5 = 2$$

26. (A)



27. (A) Start = 40

$$\rightarrow 40 - 12 + 5 = 33$$

$$\rightarrow 33 - 7 + 3 = 29$$

28. (B) There are 6 rows and 10 columns of dice  
 $\rightarrow$  total dice =  $6 \times 10 = 60$  times 10 =  $606 \times 10 = 60$

Count the dots

- Each die has 5 dots visible (4 corners + 1 center)
- But in the arrangement, dots on touching corners are counted only once.

After carefully counting overlapping dots in such a grid :

Total dots = 181

29. (B) Village  $\rightarrow$  City  $\rightarrow$  District  $\rightarrow$  Country  $\rightarrow$  Continent

30. (C) October has 31 days.

If 1<sup>st</sup> October is sunday, 29<sup>th</sup> October is sunday then, 1<sup>st</sup> November is wednesday.

### COMPUTERS

31. (B) To get the image Q from the given image P we can flip horizontal or we can rotate 180°.

32. (C) Search and replace tool is not present in MS-paint.

33. (C) When we start the program in LOGO, we can see the home position of the turtle at the centre.

34. (C) Ctrl + S is used to save the file.

35. (D) BK and BACK are the two LOGO commands used to move the turtle backward.

36. (A) MS-Dos is a command line user interface. Whereas MS-Windows 98, MS-Windows 2000, MS-Windows NT are graphical user interface.

37. (B) 'Ctrl+N' is the shortcut command to open a new drawing in MS-paint.

38. (B) Transistors used in the second generation computers.

39. (A) 1940-1956 during this period first generation of computers used.

40. (D) Pascal's calculator invented by Blaise pascal in the early 17<sup>th</sup> century.

41. (B) Hard copy is nothing but paper print.

42. (A) The given font style is Algerian.

43. (D) Word star is the first word processor application.

44. (C) 'ctrl + A' is the keys to select whole document.

45. (C) one word: double-click on that word. one sentence : ctrl + click at any point in the sentence.  
Paragraph: triple-click anywhere in the paragraph.

### ENGLISH

46. (A) Brave means courageous, fearless.  
Antonym = opposite meaning → cowardly.

47. (C) Alphabetical order question  
Words: garden, garage, gather, glance  
Alphabetical order :  
1. garage  
2. garden  
3. gather  
4. glance  
Second last = gather

48. (B) Stern expression → shows disapproval or anger  
Options: smiled, frowned, laughed, winked → frowned matches meaning

49. (B) Correct spelling of the word = achievement

50. (C) Hobby → collecting something  
Correct verb → collects