



Unified International Cyber Olympiad

UNIFIED INTERNATIONAL CYBER OLYMPIAD (UPDATED)

CLASS - 5

Question Paper Code : 3P114

KEY

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

SOLUTIONS

MENTAL ABILITY

01. (D) As each slice is $\frac{1}{6}$ th of the pizza.

So number of pizza slice in one pizza = 6

Total pizzas = 4

So, total number of pizza slices = $6 \times 4 = 24$

Number of slice each one of 8 people gets

$$= \frac{24}{8} = 3$$

02. (B) 117.3

Using digits like $65.4 + 51.9 = 117.3$, all digits 1 – 6 are used once.

This is the largest total possible while using all six digits once.

03. (A)

15	8	13	= 36
10	12	14	= 36
11	16	9	= 36
=36 =36 =36			

04. (D) A number is divisible by 3 if the sum of its digits is divisible by 3.

Let's go one by one:

1 → Sum of digits :

1 → Not divisible by 3

12 →

$1 + 2 = 3 \rightarrow$ divisible

123 →

$1 + 2 + 3 = 6 \rightarrow$ divisible

1234 →

$1 + 2 + 3 + 4 = 10 \rightarrow$ not divisible

12345 →

$1 + 2 + 3 + 4 + 5 = 15 \rightarrow$ divisible

123456 →

$1 + 2 + 3 + 4 + 5 + 6 = 21 \rightarrow$ divisible

1234567 →

$1 + 2 + 3 + 4 + 5 + 6 + 7 = 28 \rightarrow$ not divisible

12345678 →

$1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 = 36 \rightarrow$ divisible

123456789 →

$1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 = 45 \rightarrow$ divisible

05. (C) 45

Both Mary and John say 45.

Mary : $30 \rightarrow 33 \rightarrow 36 \rightarrow 39 \rightarrow 42 \rightarrow 45$
(6th number)

John : $20 \rightarrow 25 \rightarrow 30 \rightarrow 35 \rightarrow 40 \rightarrow 45$
(6th number)

They both say 45 at the same time.

06. (A) If we are arranging the cards we get least 12 digit number is 113455167699, so finally last three digits of this number is 699

07. (C) Sum = $45 + 90 = 135$

Difference = $90 - 45 = 45$

Now divide : $135 \div 45 = 3$

So, the result is 3

3 is the smallest odd number that is prime.

08. (D) Find number of working days

Monday to Friday = 5 days per week

A fortnight = 2 weeks, so

$5 \text{ days/week} \times 2 \text{ weeks} = 10 \text{ working days}$

52 hrs 30 min

Matches total of 10 days $\times 5 \text{ h } 15 \text{ min} = 52 \text{ h } 30 \text{ min}$

09. (B) Convert the total amount of shampoo to ml : 1 litre = 1000 ml

$1 \text{ L } 140 \text{ ml} = 1000 + 140 = 1140 \text{ ml}$

Subtract the spilled amount :

$1140 - 475 = 665 \text{ ml}$ left

She uses 95 ml per week :

Now divide: $665 \div 95 = 7$ full weeks
(Because $95 \times 7 = 665$)

10. (A) The second heaviest dog weighs 28 kg.

- The heaviest dog must weigh more than 28 kg (because it is heavier).
 - The third and fourth dogs weigh less than 28 kg (because they are lighter).
 - If we add the weights of the heaviest dog, the third dog, and the fourth dog, it must be 60 kg minus 28 kg = 32 kg.
 - We want to find the weight of the third heaviest dog from the options: 2, 3, 4, 5, or 6 kg.
 - Option A: Third heaviest dog weighs 2 kg
- The fourth dog must weigh less than 2 kg, so it could be 1 kg.

Adding : Heaviest dog + 2 + 1 = 32 kg.

So, heaviest dog = $32 - 3 = 29 \text{ kg}$.

Order : $29 \text{ kg} > 28 \text{ kg} > 2 \text{ kg} > 1 \text{ kg}$

11. (A) $100000 \times 1000 = 100000000 = 10 \text{ crores}$

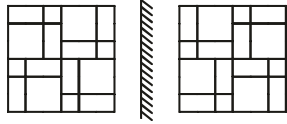
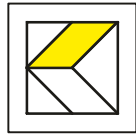
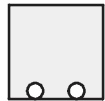
12. (D) 80 litres : If $1/4$ of the tank is 20 litres, then the full tank is $20 \times 4 = 80 \text{ litres}$.

13. (C) Find prime factors of each number
 $242 = 11 \times 22 = 11 \times 11 \times 2$
 $484 = 11 \times 44 = 11 \times 11 \times 4 = 11 \times 11 \times 2 \times 2$
 $363 = 11 \times 33 = 11 \times 11 \times 3$
 $11 \times 11 = 121$
 Is 121 a factor of all three numbers ?
 $242 \div 121 = 2$ (yes)
 $484 \div 121 = 4$ (yes)
 $363 \div 121 = 3$ (yes)
14. (C) The shopkeeper gives ₹ 2.50 as change. He gives 1 coin of ₹ 1, so now ₹ 1.50 is left to give.
 He uses only 50 paise and 25 paise coins in equal numbers to make ₹ 1.50.
 Two 50 paise coins make ₹ 1 (because $50p + 50p = ₹ 1$).
 Two 25 paise coins make 50 paise.
 So, 2 coins of 50p + 2 coins of 25p = ₹ 1.50
 Total coins given = 1 coin of ₹ 1 + 2 coins of 50p + 2 coins of 25p = 5 coins.
15. (A) 2,23,499 is the largest possible number to round off nearest thousand is 223000

REASONING

16. (B) First, we list the letters of the word RELATIONSHIP: R, E, L, A, T, I, O, N, S, H, I, P. The fifth letter is T and the tenth letter is H. In the English alphabetical order, H is the 8th letter and T is the 20th letter. To find the number of letters between H and T, we list all letters that come strictly after H and before T: I, J, K, L, M, N, O, P, Q, R, S. There are 11 letters in this list.
 Step by Step Solution :
 Step 1 : List the letters in RELATIONSHIP: R, E, L, A, T, I, O, N, S, H, I, P.
 Step 2 : Determine the fifth letter (T) and the tenth letter (H).
 Step 3 : Find their positions in the English alphabet: H is 8th and T is 20th.
 Step 4 : List the letters strictly between H (position 8) and T (position 20): I, J, K, L, M, N, O, P, Q, R, S.
 Step 5 : Count the letters listed in step 4 to get 11.

17. (B)
- | | | | | |
|----|----|----|----|----|
| E | A | R | T | H |
| +1 | +2 | +3 | +4 | +5 |
| F | C | U | X | M |
-
- | | | | |
|----|----|----|----|
| M | O | O | N |
| +1 | +2 | +3 | +4 |
| N | Q | R | R |

18. (A)
- 
19. (B)
- 
20. (D)
- 

First the paper was folded horizontally, from left to right

Then, one hole was punched out. Therefore, when the paper is unfolded the hole will mirror on the left and right side of the sheet.

The right answer is 'D'

21. (A) Reptile
 This is correct.
- A butterfly is an insect,
 - A snake is a reptile.
- The relationship is "type of"
 So this is the correct analogy:
 butterfly : insect :: snake : reptile
22. (A) In this question there is a square inside a regular polygon. Each shape follows its own rule. The square rotates by 90 degree anticlockwise each time. Following this rule, the next diagram of the sequence could be A, B or D. The pentagon rotates by 144 degree clockwise each time. When this rule is also applied, the next diagram of the sequence must be B.

23. (D) Small rectangle is at corner in option (D), whereas in option (A), (B) and (C) it is at one of the sides of a image.

24. (D) SLIENT

Not valid

All letters of "SILENT" are used

BUT "SLIENT" is not a real English word

Incorrect option – Not meaningful

25. (B) BG BG BG BG BG BG BG BG

$$\frac{1}{3^{rd}} \text{ Boys} = \frac{1}{2^{nd}} \text{ girls}$$

$$\frac{B}{G} = \frac{3}{2} \Rightarrow B : G = 3 : 2$$

$$3x + 2x = 20$$

$$x = 4$$

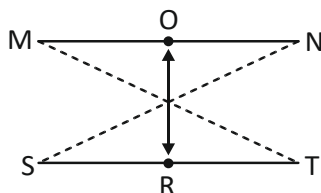
$$\therefore \text{Number of boys} = 3 \times 4 = 12$$

26. (C) $3 \times 3 + 5 \times 6 = 39$

$$4 \times 4 + 7 \times 5 = 51$$

$$3 \times 4 + 5 \times 5 = 37$$

27. (A) R is sitting opposite to N.

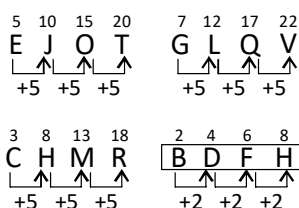


28. (A) RED

Completed word : FIRED

- "Fired" means dismissed from a job, which fits the sentence: "The lazy worker was fired."
- It's a common consequence for being lazy or not doing your work properly.

29. (D) The letters follow below pattern



It is clearly seen that, except BDFH all others follow similar pattern but letters' group BDFH follows different pattern. So, BDFH is odd one out.

Hence, option (D) is correct.

30. (A) The first letter of each term is moved one step forward, the second letter is moved four steps backward and the third letter is moved four steps forward to obtain the corresponding letters of the next term.

COMPUTERS

31. (D) In MS Word 2010, there is no direct in built shortcut for accessing emoji or special characters using windows + . However, on Windoes 10 and above pressing.

windows + . (period)

OR

windows + ; (semicolon)

opens the emoji panel, from where you can insert symbols or emojis into Word documents, even older versions like MS Word 2010.

32. (C) Tara wants to :

- Carry a 4GB video
- Plug it into a school projector that only supports USB

CD-ROM

- A CD-ROM (Compact Disc – Read Only Memory):
- Cannot store 4GB, because the standard capacity is 700 MB only
- Also, it requires a CD drive, which projectors do not have
- Not suitable

33. (A)

1. Power supply turns on (3)

This is the first physical action. It powers up all the components of the computer.

2. BIOS loads (1)

BIOS (Basic Input Output System) checks the hardware (RAM, keyboard, disk drives, etc.) and starts the booting process.

3. Operating system starts (2)

After BIOS, the OS (like Windows) loads into memory.

4. User login screen appears (4)

Once the OS is fully loaded, you see the login screen to use your computer.

34. (C) A circle
 $36 \times 10 = 360^\circ$, completing a circle.

35. (C) Windows 10 is correct:

- Release Year: 2015
- Start Menu: Reintroduced the classic menu with added live tiles, combining old and new styles.
- Device Compatibility: Designed to be a unified platform across desktops, laptops, tablets, and even Xbox consoles.

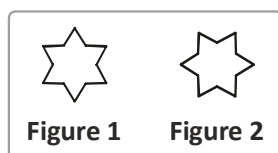
36. (B)

- F12 in MS Word opens the "Save As" dialog window.
- This lets you rename the file or choose a different folder/location to save your file.
- It's useful if you want to keep a second copy of the file.

37. (D) PU (Pen Up):
This command lifts the turtle's pen, so it moves without drawing.

38. (D) Option (D) is in Excel not in MS Power Point 2010.

39. (D) Rotate left 90° , rotate right 90°



40. (D) Spreadsheet formulas
Spreadsheet formulas are used for calculations and data processing, not for presenting audio-visual content.

It belongs to data computation, not media. It doesn't visually or audibly engage the user.

41. (A) A-2, B-1, C-3

- Printer → Output Device
- Hard Disk → Secondary Memory
- Microphone → Input Device

42. (C) The website is secure (Correct)
The lock icon means the website is using HTTPS, which keeps your information private and encrypted.
It's safe to enter passwords or personal data only if the lock is visible.

43. (C) When a game closes immediately upon opening, the most likely reason is:

The software (game) is either incompatible with the system (e.g., wrong version for OS), or

The software is corrupted (maybe incomplete install or damaged files).

This results in program failure or crash — a clear case of incompatible or corrupted software.

44. (D) A search engine is a special website that helps you find information on the internet by typing keywords or questions. yahoo, ask, bing are a search engine.



45. (A) He used the Ctrl key while dragging the house (Correct)

In MS Paint, holding the Ctrl key while dragging an object with the Select Tool creates a copy, leaving the original in place.

That's why Arnav saw the house both in the original and new position.

ENGLISH

46. (A) The correct structure is "possible for you to..." The original sentence is grammatically incorrect.

47. (C) Graceful means elegant in movement; clumsy means awkward — its opposite.

48. (B) Wait means to stay, and wharf is a dock — both fit logically and are correctly spelled.

49. (B) He is third-person singular, so it should be doesn't not don't.

50. (B) Revise means to change or edit to improve the content.