UIC

Unified International Cyber Olympiad

UNIFIED INTERNATIONAL CYBER OLYMPIAD (UPDATED)

CLASS - 4
Question Paper Code : 3P114

KEY

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

SOLUTIONS

MENTAL ABILITY

01. (D) Multiply the fraction by the whole number

$$\frac{2}{3} \times 6 = \frac{2 \times 6}{3} = \frac{12}{3} = 4$$

So, option D is the same value of $6 \times \frac{2}{3}$.

02. (A) Total School Time

From 8:00 a.m. to 3:00 p.m. = 7 hours = 420 minutes

Time Spent on Periods

5 periods × 45 minutes = 225 minutes

Time Spent on Breaks

20 + 30 + 10 = 60 minutes

Time Used = Periods + Breaks

225 + 60 = 285 minutes

Time Left for Activities = 420 − 285 = 135 minutes

135 minutes = 2 hours 15 minutes

03. (C) Ordering to Form Largest 5-Digit Number

Given Cards:

Card P = 11

Card Q = 7

Card R = 10

We must order these to form the largest possible 5-digit number.

Try combinations:

PQR → 11710

QRP → 71010

QPR → 71110

PRQ → 11707

Correct Answer: (C) QPR, since 71110 is the largest.

04. (D) 9 + 8 + 7 + 6 + 5 + 4 + 3 + 2 + 1 = 45

If you remove one '+' sing, two numbers get joined (e.g., 8 and 7 becomes 87), making one 2-digit number.

Try: join 5 and 4 → 54

New expression: 9 + 8 + 7 + 6 + 54 + 3 + 2 + 1 = 90

Try: join 6 and 5 → 65

New: 9 + 8 + 7 + 65 + 4 + 3 + 2 + 1 = 99

Correct option is (D) 65

05. (B) 1,000,000 − 30,000 = 970,000

• Now, how many hundreds make up 970,000?

• Divide : 970,000 ÷ 100 = 9,700

• So, you need to add 9,700 hundreds

06. (D) Multiples of 91 are

91, 182, 273, 364, 455 ....

455 is in a range between 401 - 460.

07. (D) All shapes in (D) have :

At least one pair of parallel sides (trapezium, house, square corner).

At least one pair of perpendicular sides (right angles visible in all).

Meets both conditions for every shape → Correct.

08. (A) Let's add all 3 known values :

• 200 g (▯ + ◯)

• 100 g (△ + ◯)

• 240 g (▯ + △)

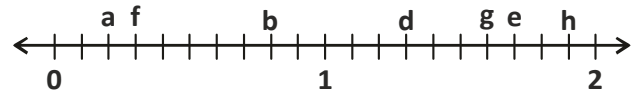Add them together : 200 + 100 + 240 = 540 g

But here's the trick :

We added each shape twice because :

• ▯ appears in 200 and 240

• △ appears in 100 and 240

• ◯ appears in 200 and 1000

So if we added each shape 2 times, then

▯ + △ + ◯ = 540 ÷ 2 = 270 g

09. (C)

That means each small interval = 0.1

∴ f = 0.3, e = 1.7

1.7 − 0.3 = 1.4

10. (C) 1215 × 4 = 4860

4860 + 1 = 4861

11. (B) The units digit (also called the ones digit) is always multiplied by 1 to get its place value.

So, place value = face value × 1, which means both are the same.

For example :

In the number 5482, the units digit is 2.

Face value of 2 = 2

Place value of 2 = 2 × 1 = 2

12. (C) Original Total Money :

₹ 50 × 3 = ₹ 150

₹ 10 × 4 = ₹ 40

₹ 5 × 2 = ₹ 10

Total = ₹ 150 + ₹ 40 + ₹ 10 = ₹ 200

After giving away and losing :

Gives one ₹ 10 note → − ₹ 10

Loses one ₹ 5 coin → − ₹ 5

Now: ₹ 200 − ₹ 10 − ₹ 5 = ₹ 185

13. (A)

Days of Rain
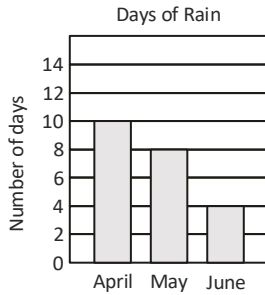
14. (C) A pot filled two-thirds with plum jam weighs 400 grams.

The same pot filled one-third with plum jam weighs 250 grams.

Now look at the change :

From 250 grams to 400 grams means the jam increased by 150 grams.

This means one-third of the jam weighs 150 grams.

To find full jam, multiply 150 grams by 3 :

150 × 3 = 450 grams

So, full jam weighs 450 grams.

Now take the one-third pot again :

It weighed 250 grams.

One-third jam is 150 grams.

So the empty pot weighs 250 – 150 = 100 grams.

Now add :

Jam = 450 grams

Pot = 100 grams

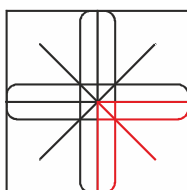Total = 450 + 100 = 550 grams

15. (C) L.C.M of 24 and 32 = 96

H.C.F of 24 and 32 = 8

REASONING
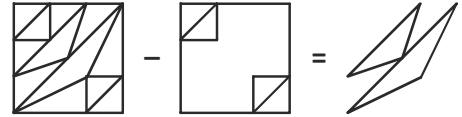
16. (A) 10 + 15 + 5 = 30

16 + 4 + 7 = 27

20 + 8 + 2 = 30

17. (C)

18. (A)

19. (A) Letters : E, L, P, H →

Word = "HELP" → Third letter = L

20. (B) 'S' is code for dark

'R' is code for rectangle

∴ The code for the last image is RS

21. (C) In the given group each figure represents half sides.
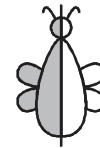
22. (C) First letters: +1, +2, +3, +4, +5 → next: U

Second letters: -1 each time → next: G

So, the answer is UG.

23. (B) An honest person shows truth, and a brave person shows courage.

24. (D) In option (D) semi-circle is flipped downwards.

25. (D) There are two triangles less than circles

26. (D)

27. (C)

28. (D) All others follow a pattern of letter's position = number (C = 3, E = 5, G = 7); H = 8 is correct, but it breaks the odd-letter pattern.

So option (D) breaks the rule.

29. (A) Seed → Sapling → Tree → Flower → Fruit

2 →　　3　→ 1 → 4 → 5

30. (C)

sum 15 sum 15 sum 15
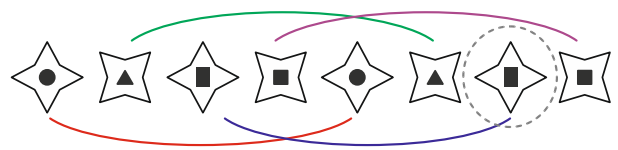
7	10	3	3
8	5	4	5
3	5	5	5
9	11	6	9
3	4	2	13

sum 15 (left), sum 15 sum 15 sum 15 (right), sum 15 (bottom)

COMPUTERS

31. (B) Holding the Shift key while dragging with the Ellipse tool makes all sides equal, forming a perfect circle.

32. (D) TABLET, PALMTOP are hand held computers.

33. (D)

1. High-resolution nature photo → MB (Megabytes)

   High-quality photos often need a few megabytes of space. MB is a suitable unit for storing images.

2. SMS text message → Bytes

   A simple text message contains just letters and is very small in size, usually measured in bytes.

3. Backup of a multinational company's server → TB (Terabytes)

   Server backups contain huge amounts of data. These are measured in terabytes, which are much bigger than GB or MB.

4. System RAM in a modern laptop → GB (Gigabytes)

   Laptops today usually have 4GB to 16GB of RAM. So, RAM is measured in gigabytes.

34. (B) **Hard Disk** is a permanent storage device. It stores your files, documents, photos, videos, and software, even when the power is turned off.

35. (C) .txt stands for text file. Notepad is a simple text editor, and it saves files with a .txt extension by default.

36. (C) Pressing F7 opens the Spelling & Grammar check dialog box in MS Word. It checks the document for spelling and grammar mistakes.

37. (C) E-commerce application – Correct. Apps like Amazon or Flipkart are used to buy products online, check reviews, prices, and delivery info. Tina used one of these.

38. (D) Format painter copies font formatting (like font colour, boldstyle, high light colour) but does not copy paragraph level formatting such as paragraph spacing.

39. (D) The Internet is the whole worldwide network.

40. (D) File menu option is missing in the given notepad window.

41. (B) 2nd Generation correctly used transistors.

42. (A) The CLEAR TEXT command in LOGO does not take any input.

43. (B) The steps to get back a file that has been deleted are Recycle bin → right click on file → restore.

44. (A) REPEAT 4 [FD 50 RT 90]

This is correct because a square has 4 equal sides and 4 right angles (90°).

Repeating FD 50 and RT 90 four times creates a complete square.

The turtle ends in its original direction after turning 90° four times (90° × 4 = 360°).

45. (B) Winzip is a software which is used to compress a file.

ENGLISH

46. (B) "Brave" means someone who is not afraid, and "fearless" is a synonym.

47. (C) Alphabetical order: calm, call, cake, cat → cat is last.

48. (A) Opposite of hot is cold; opposite of tall is short.

49. (A) "He" is singular, so it should be "doesn't" not "don't."

50. (B) The correct spelling is "tearing" if it means ripping, or "staring/taring" based on meaning. "Taring" is incorrect in general usage.