



UNIFIED CYBER OLYMPIAD

CLASS - 6

Question Paper Code : 3P104

KEY

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

SOLUTIONS

MENTAL ABILITY

01. (B) Distance covered in one minute

$$= \frac{75^5 \text{ km}}{60_4} = 1.25 \text{ km}$$

Distance covered in 18 minutes

$$= 1.25 \text{ km} \times 18 = 22.5 \text{ km}$$

02. (C) $\frac{44}{11} = 4$

$$\frac{110}{44} = \frac{\cancel{11} \times 10}{\cancel{11} \times 4} = 2.5$$

$$\frac{44}{1100} = \frac{4 \times \cancel{11}}{\cancel{11} \times 100} = 0.04$$

$$\therefore \frac{44}{11} + \frac{110}{44} + \frac{44}{1100} = 4 + 2.5 + 0.04$$

$$= 6.54$$

03. (C) Volume of a cube = side³

$$= (5 \text{ cm})^3$$

$$= 5 \text{ cm} \times 5 \text{ cm} \times 5 \text{ cm}$$

$$= 125 \text{ cm}^3$$

04. (D) LCM of 25, 50, 5 & 20 = 100

$$\frac{22}{25} = \frac{22}{25} \times \frac{4}{4} = \frac{88}{100}, \quad \frac{47}{50} = \frac{47}{50} \times \frac{2}{2} = \frac{94}{100}$$

$$\frac{4}{5} = \frac{4}{5} \times \frac{20}{20} = \frac{80}{100}, \quad \frac{19}{20} = \frac{19}{20} \times \frac{5}{5} = \frac{95}{100}$$

$\therefore \frac{95}{100}$ i.e., $\frac{19}{20}$ is the greatest

05. (B) Perimeter of a rectangle = $2(l + b)$
 $= 2(123.45 + 67.55)$ m
 $= 2(191)$ m
 $= 382$ meters

06. (D) Katrina's total time is equal to the sum of 3 minutes and 45 seconds and 4 minutes and 35 seconds.

Adding 45 seconds and 35 seconds, we get $45 + 35 = 80$ seconds. Since there are 60 seconds in 1 minute, then 80 seconds is equal to 1 minute and 20 seconds. Thus, Katrina's total time was $3 + 4 + 1 = 8$ complete minutes plus 20 seconds, for a total of 8 minutes and 20 seconds.

07. (D) Area of the square PQRS = s^2
 $= 52 \text{ cm} \times 52 \text{ cm} = 2704 \text{ cm}^2$
 Area of the square ABCD = s^2
 $= 45 \text{ cm} \times 45 \text{ cm} = 2025 \text{ cm}^2$

Area of the shaded region
 $= 2704 \text{ cm}^2 - 2025 \text{ cm}^2 = 679 \text{ cm}^2$

08. (C) Greatest 8 digit number using the given digits = 99986210

Smallest 8 digit number using the given digits = 1,00,02,689

\therefore Required difference
 $= 99986210 - 10002689$
 $= 89983521$

09. (A) Required number = sum – given number
 $= 49,19,16,510 - 36,84,59,721$
 $= 12,34,56,789$

10. (C) Let 'B's share be ₹ x

$\therefore \frac{2}{5} : 1\frac{3}{4} = ₹ 12,000 = ₹ x$

$\therefore \frac{7}{5} : \frac{7}{4} = 12,000 : x$

Product of extremes = Product of means

$$\frac{7x}{5} = \frac{7}{4} \times 12000$$

$$x = \frac{21,000}{4} \times \frac{5}{7}$$

$$x = 15,000$$

11. (B) Product of two numbers = LCM \times HCF
 $20 \times \text{second number} = 80 \times 4$

$$\text{second number} = \frac{80 \times 4}{20}$$

$$= 16$$

12. (A) Second fraction = sum – first fraction

$$= \frac{53}{60} - \frac{7}{15}$$

$$= \frac{53}{60} - \frac{7}{15} \times \frac{4}{4}$$

$$= \frac{53 - 28}{60} = \frac{25}{60} = \frac{5}{12}$$

13. (A) Number of pieces with Rani = $\frac{42}{2} = 21$

$$\text{Number of pieces with Harsh} = \frac{42}{3} = 14$$

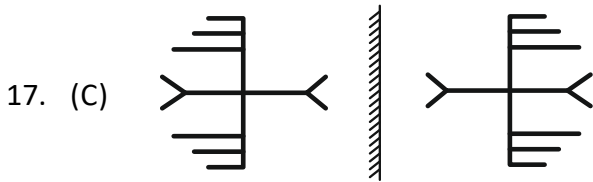
Therefore, Rani has $21 - 14 = 7$ more pieces of string than Harsha.

14. (D) The greatest option among four option is -1.

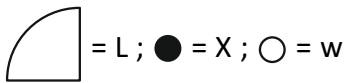
15. (C) As a percent, one-quarter is equivalent to 25%. Thus, Wednesday was chosen by exactly one-quarter of the students.


REASONING

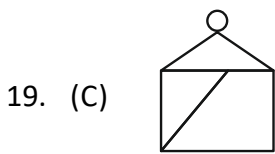
16. (B) The second figure is water image of first image.



18. (D) From the given codes for the figures,



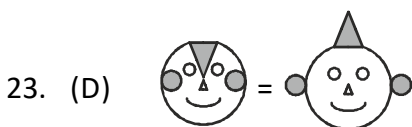
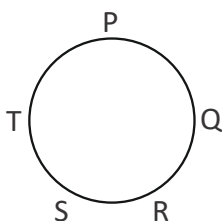
Hence, code for  is LW.



20. (A) UHDE (The letter to the left of D is 'H'. So the letter that will appear to the left of D, the third letter from the left is UHDE is H.

21. (D) Except (D), in all other figures the two dots are on different sides of the central line.

22. (B) In the above arrangement P is next to Q, R is between. Q and S and T is sitting to the left of P. "S" is sitting between T and R.



24. (A) Rule:
 $(2 \times 3) - 1 = 5$
 $(5 \times 3) - 1 = 14$
 $(14 \times 3) - 1 = 41$

Similarly $41 \times 3 - 1 = 122$

25. (A) Christmas time is the correct answer because mast is hidden between Christmas and time.

26. (C) C is the 3rd letter in the English alphabet. E is the 5th letter in the English alphabet. Similarly G and J are 7th and 10th letters respectively.

27. (A) $729 \div 3 = 243$, $243 \div 3 = 81$, $81 \div 3 = 27$
 $27 \div 3 = 9$, $9 \div 3 = 3$

28. (B) LEDAB = BLADE



30. (D)

COMPUTERS

31. (D) A USB is a port that is used as a common interface to connect several different types of devices.

32. (C) Software consists of a set of instructions that tells the computer hardware what to do and how to do it. This includes applications, operating systems, and device drivers, all of which direct the hardware to perform specific tasks. While the operating system and device drivers are types of software, the broader category that encompasses all these instructions is simply referred to as software.

33. (B) Arrows are the connectors that show the relationship between the representative shapes in a flowchart.

34. (B) In the second generation of computers, the key component that enabled significant miniaturization was the transistor.

35. (C) Promptly replying to emails is an essential aspect of email etiquette. It shows respect for the sender's time and demonstrates professionalism in communication. Delayed responses can lead to misunderstandings or frustration on the part of the sender.
36. (A) Among the options, flickr is a photo sharing website.
37. (C) The CLS command is used to clear the screen in QBasic
38. (A) This code segment prints the numbers from 1 to 5 using a loop.
39. (A) Faster internet speed
40. (B) Hard disk drive is to provide long-term storage for data. It stores operating systems, application files and other data that need to be kept even when the computer is powered off.
41. (B) The Export option in PowerPoint 2016 allows you to save a presentation in various file formats, including PDF, for sharing or printing purposes.
42. (D) Pressing the Spacebar or Enter key: These keys also allow you to move to the next slide.
1. Using the Backspace or Left Arrow key: These keys take you back to the previous slide.
 2. The option that is not a valid method to continue through your slide show is using shift key.
43. (B) The "Layout" tab in MS Word contains options for organizing the layout of the document, including inserting tables.
44. (D) Windows key + PrtScn
45. (C) While text, numbers, and dates are commonly entered data types in spreadsheets, audio files are not typically entered directly into spreadsheet cells. Spreadsheets are designed to handle text-based and numerical data.

ENGLISH

46. (B)
47. (D)
48. (B)
49. (D)
50. (C)

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The End
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