

National Cyber Olympiad

Practice Test Paper






Choose the correct answer out of the four options given below each question. Mark your choice in the answer sheet given at the end of this Test Paper.



Mental Ability

1. If $\frac{1}{6} \times 4 \times \frac{1}{16} = 24 \times \frac{1}{6} \times x$, what is the value of x ?
 - a. $\frac{1}{96}$
 - b. $\frac{1}{48}$
 - c. $\frac{1}{24}$
 - d. 24

2. What is the least common multiple of 6, 9 and 18?
 - a. 9
 - b. 24
 - c. 32
 - d. 18

Direction (Q.3 and Q.4) : The following pictograph shows the number of Rasgullas eaten by 5 participants in 10 minutes during a competition.

| Participants | Rasgullas eaten |
|--------------|---|
| Arindam |  |
| Nandlal |  |
| Srinivas |  |
| Ramanna |  |
| Angad |  |

*Each  represents 2 rasgullas
 *Each  represents 1½ rasgullas

Now answer (Q.3 and Q.4) based on the above pictograph.

3. Which participant ate the most number of Rasgullas and won the competition?
 - a. Angad
 - b. Ramanna
 - c. Arindam
 - d. Nandlal

4. Which participant came runners up in the competition?
 - a. Ramanna
 - b. Arindam
 - c. Nandlal
 - d. Srinivas

5. What is the place of the digit 6 in the decimal number 10.53168.
 - a. One-hundredths
 - b. Hundreds
 - c. One-ten thousandths
 - d. Ten thousands

6. What is 24% of 250?
 - a. 68
 - b. 65
 - c. 60
 - d. 48

7. Which of these is same as the fraction $\frac{13}{100}$?
 - a. 0.13
 - b. 0.013
 - c. 0.0013
 - d. 1.300

8. In the following equation if x has a value of 8, what is the value of y ?

$$3y = 9x - 27$$
 - a. 43
 - b. 22
 - c. 20
 - d. 15

9. Which of these is a prime number but not an odd number?
 - a. 4
 - b. 18
 - c. 37
 - d. 2

10. Samyak wants to wrap a paper around a gift he has bought for his sister Kushagra. What shape of paper should he use to cover the gift completely leaving only the top and bottom unwrapped?
 - a. Circular
 - b. Hexagonal
 - c. Rectangular
 - d. Triangular

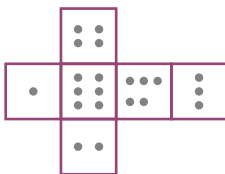
Logical and Analytical Reasoning

11. If 'A' stands for addition, 'B' stands for subtraction, 'C' stands for multiplication and 'D' stands for division. Find the value of the following expressions.

$$12A36C2B63D7$$

- a. 14 b. 75
c. 2 d. 68

12. Raju made some dots on the faces of a cubical cardboard box. He cut open the box as shown below. Observe the figure and find out how many dots did he make on the face opposite to the face having 3 dots.



- a. 1
b. 2
c. 4
d. 6

13. If A and B are brothers. C is D's sister and D is B's father then what is the relationship between C and A?

- a. Brother b. Aunt
c. Mother d. Sister

14. Find the value of the expression:

$$22222 - 2222 + 222 - 22 + 2$$

- a. 20218 b. 20202
c. 22218 d. 22002

15. Which figure should come next in the following sequence to continue the pattern.



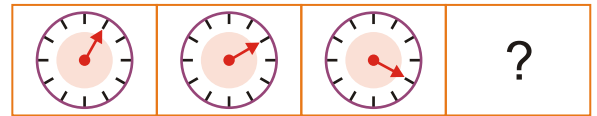
- a. b. c. d.

16. Which is the next number in the series given below:

$$11, 123, 12, 146, 13, 171, 14, \dots ?$$

- a. 208 b. 188
c. 186 d. 198

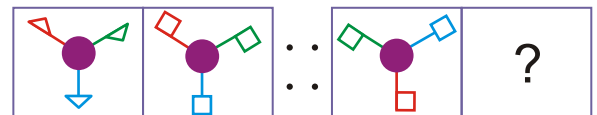
17. What figure should come next in the series:



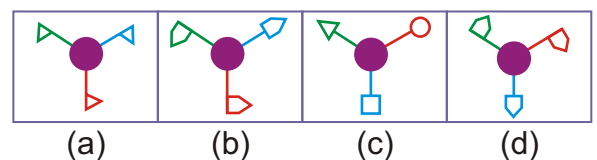
- a. b. c. d.

Directions (Q18-19): Observe the problem figure and tick (✓), the figure that replaces the '?' mark in the answer figure.

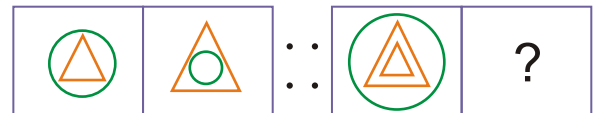
18. Problem Figure:



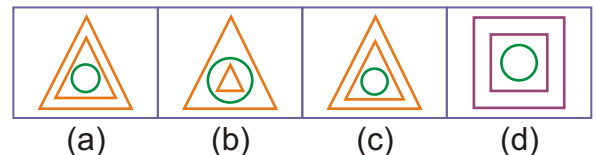
Answer Figure:



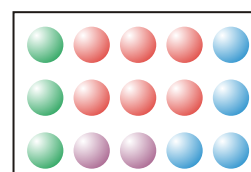
19. Problem Figure:



Answer Figure:



20. With his eyes closed Raj picks up one marble from the collection given below. Which colour marble is he most likely to pick?



- a. Green
b. Blue
c. Red
d. Purple

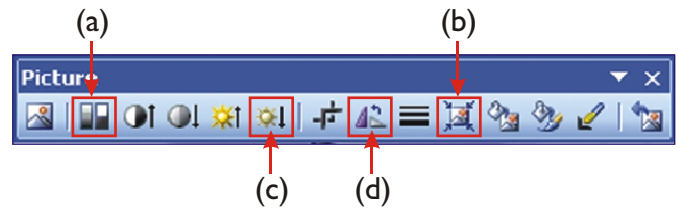
Computers and Information Technology

21. Which of these is a type of high speed RAM that lies on or very close to the CPU?
- SRAM
 - DRAM
 - Cache
 - Frame
22. Which memory stores booting instructions for the computer?
- RAM
 - ROM
 - Hard disk
 - DVD
23. A hardware device on which a software is permanently hardwired is known as a
- Hardware
 - Software
 - Hybridware
 - Firmware
24. Which of these devices allows you to shoot pictures and store them in a digital format?
- Scanner
 - Bar Code Reader
 - Digital Camera
 - Memory Stick
25. We can drag a window around anywhere on the computer screen by holding it from its
- Vertical Scroll bar
 - Title bar
 - Horizontal Scroll bar
 - Menu bar
26. Using which option of the Word's format menu can one change all the letters of the selected text to uppercase.

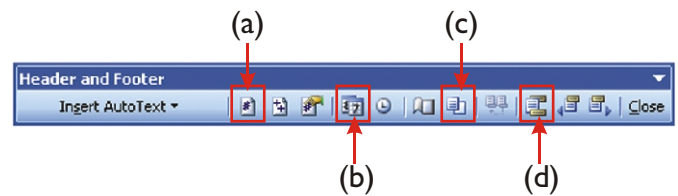
india is a great country

- Sentence case
 - lower case
 - UPPER CASE
 - Title Case
27. The yellow diagonal shaped handle that appears around a selected WordArt object is known as a
- Reshaping handle
 - Adjustment handle
 - Resizing handle
 - Deform handle

28. The menu obtained after we right click on an on-screen object is known as the
- Object Menu
 - Mouse Menu
 - Context Menu
 - Instant Menu
29. Which of these is an impact printer?
- Laser Printer
 - Dot Matrix Printer
 - Inkjet Printer
 - Thermal Printer
30. Which out of the buttons marked as a, b, c and d on the Format Picture toolbar allows you to rotate a picture towards the left by 90°.



31. Which tab of the Format Cells dialog box allows you to format the number entries in a worksheet?
- Cells tab
 - Alignment tab
 - Patterns tab
 - Number tab
32. Suppose you have just finished adding the header text (in the header placeholder) to your word document and now want to move over to the footer placeholder to add the footer text. Which button of the header and footer toolbar should you click?



33. A speaker is connected to the audio _____ generally situated at the back of the system unit.
- Switch
 - Port
 - Jack
 - Cable

34. Which of these is a valid address for a range of cells in MS Excel?

- a. A1...D6
- b. B5...5C
- c. 5V...E7
- d. AA...66

35. What does 'rsp35' denote in the e-mail address 'rsp35@rediffmail.com'?

- a. User name
- b. Password
- c. Domain name
- d. Host name

36. Which of these is an animation software?

- a. Photoshop 7
- b. Paint
- c. Flash 8
- d. CorelDraw 13

37. Which of the following software is used to explore the World Wide Web?

- a. Netscape Navigator
- b. Spreadsheet
- c. Google.co.in
- d. Clipboard

38. Which of the following key combination when pressed will reverse the last action done in most of the software.

- a. Ctrl+Y
- b. Alt+Z
- c. Ctrl+Z
- d. Alt+Y

39. Which key combination allows you to open the file menu in a software program.

- a. Alt+E
- b. Ctrl+F
- c. Ctrl+E
- d. Alt+F

40. Which of these statements is a conditional statement in QBasic?

- a. INPUT...CASE
- b. IF...THEN
- c. SWITCH...CASE
- d. WHAT...IF

ANSWER SHEET

Darken your choice with a HB pencil

| | | | | | | | | | | | | | | |
|-----|-------------------------|-------------------------|-------------------------|-------------------------|-----|-------------------------|-------------------------|-------------------------|-------------------------|-----|-------------------------|-------------------------|-------------------------|-------------------------|
| 1. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D | 15. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D | 29. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D |
| 2. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D | 16. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D | 30. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D |
| 3. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D | 17. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D | 31. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D |
| 4. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D | 18. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D | 32. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D |
| 5. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D | 19. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D | 33. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D |
| 6. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D | 20. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D | 34. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D |
| 7. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D | 21. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D | 35. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D |
| 8. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D | 22. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D | 36. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D |
| 9. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D | 23. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D | 37. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D |
| 10. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D | 24. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D | 38. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D |
| 11. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D | 25. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D | 39. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D |
| 12. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D | 26. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D | 40. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D |
| 13. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D | 27. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D | | | | | |
| 14. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D | 28. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D | | | | | |