

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. A sum of money on simple interest gets doubled in 8 years. How many years will it take for the sum of money to become four-times of the initial amount, if the rate of interest remains the same?

a. 32 years b. 15 years
c. 16 years d. 24 years

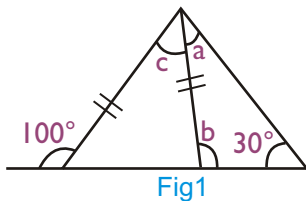
2. If the area of a square field is 9 hectares then what is the length of each of its side?

a. 3000 metres b. 300 metres
c. 30 metres d. 3 metres

3. What is the value of $(9^2)^{-\frac{1}{2}}$?

a. 81 b. $\frac{1}{81}$
c. $\frac{1}{9}$ d. $\frac{1}{18}$

4. In the Fig1, what is the value of $\angle a$?



a. 30°
b. 50°
c. 40°
d. 100°

5. If $\sqrt{\frac{36}{25}} = \frac{x}{65}$, what is the value of x?

a. 78 b. 65
c. 17 d. 119

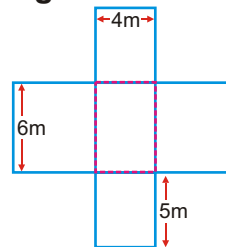
6. Shyam sold 10 pens for Rs. 5 and made a gain of 20% in the transaction. Find the number of pens he had bought for Rs. 5.

a. 12 b. 20
c. 24 d. 14

7. In the equation $\frac{15 \times 16 - 16 \times 5}{10 \times 16} = \frac{x}{16}$, the value of x is:

a. 16 b. 10 c. 1 d. 11

8. What will be the total surface area of the open topped cardboard box formed by folding the following net?



a. 130m^2
b. 124m^2
c. 136m^2
d. 200m^2

9. Which of the following series shows numbers arranged in ascending order.

a. $-1, -5, -10, -12, -7$
b. $-25, -10, -12, -1, -5$
c. $-1, -5, -10, -75, -80$
d. $-12, -10, -6, -5, -1$

10. At a School, 175 students of class 12 were asked to name a course of study they would like to persue after passing out. The following table lists their responses:

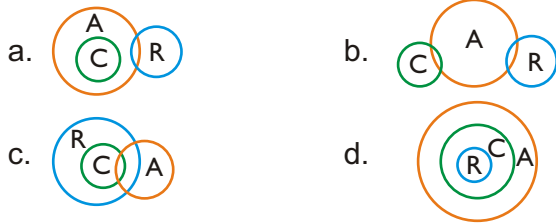
Course of Study	No. of Students
Engineering	60
Medicines	55
Business Mgmt.	32
Literature	28

- Which of the following statements is true in light of the above data?

a. More than 40% would go for Engineering.
b. Less than 20% would go for Medicines.
c. More than 40% would take up Business Mgmt.
d. Exactly 16% would go for Literature.

Logical and Analytical Reasoning

11. Which of the following diagrams correctly represents the relationship between Automobiles (A), Cars (C) and Maruti Ritz (R).



12. Arrange the following letters to form a meaningful word.

R E C B Y

What will be the last letter of the word formed above?

- a. Y
- b. R
- c. B
- d. E

13. If cotton is called wool, wool is called jute, jute is called nylon and nylon is called leather, which of the following is used for making clothes that we wear during winters?

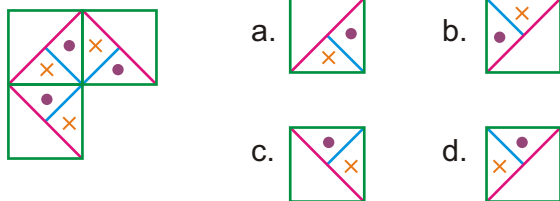
- a. Nylon
- b. Jute
- c. Leather
- d. Cotton

14. Which image is a mirror reflection of the image given in the Figure.



- a.
- b.
- c.
- d.

15. Which figure will complete the pattern given in the following figure.

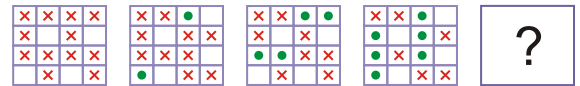


16. Which figure will continue the following pattern?



- a.
- b.
- c.
- d.

17. Which figure will continue the following series?



- a.
- b.
- c.
- d.

18. Use the following clues to order the fruits kept in a line.

- Banana is between Mango and Orange.
- Orange is not placed first from the left.
- Apple is not placed first from the right.

Which of the following shows the correct order in which the fruits are kept?

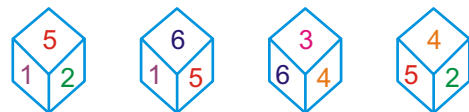
- a. Mango, Banana, Orange, Apple
- b. Apple, Banana, Mango, Orange
- c. Apple, Mango, Orange, Banana
- d. Apple, Mango, Banana, Orange

19. Which of the following will come next in the series?

6, 10, 18, 34, 66, ---

- a. 130
- b. 134
- c. 142
- d. 140

20. Observe the different positions of a dice given below. Which number occurs on the face opposite to the number 4.



- a. 3
- b. 5
- c. 1
- d. 6

Computers and Information Technology

21. Which of these is not a programming language?

- a. QBasic
- b. C++
- c. HTML
- d. JAVA

22. A software which converts a program written in a high level language into the Machine Code is known as a

- a. Application Software
- b. System Utility
- c. Code Converter
- d. Language Translator

23. Which of these is an input device which lets a user to give inputs to the computer in the form of hand drawn images.

- a. Memory Card
- b. SB Card
- c. HB Tablet
- d. Graphic Tablet

24. 1 Giga Byte (1 GB) of memory is equal to

- a. 1024 KB
- b. 1024 MB
- c. 1024 Bytes
- d. 1000 KB

25. Which of these is a kind of ROM that can be reprogrammed with the help of special electric pulses?

- a. Memory Stick
- b. PROM
- c. EEPROM
- d. ULROM

26. Which of these is an application software?

- a. Window XP
- b. MS Word
- c. Norton Antivirus
- d. QBasic

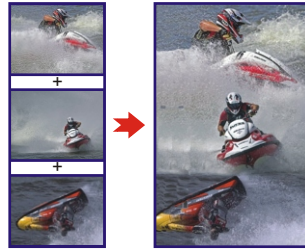
27. In MS Excel, which of these keys when pressed after selecting the required data instantly creates a chart?

- a. F7
- b. Alt + Enter
- c. F11
- d. Ctrl + Shift

28. Which of the following website allows you to do Microblogging?

- a. BigAdda.com
- b. Google.co.in
- c. Rediff.com
- d. Twitter.com

29. Which software allows you to combine three images into one composite image.



- a. Photoshop
- b. MS Excel
- c. MS PowerPoint
- d. MS Windows

30. Samyak wants to send an e-mail to his friend. Which of the following software should he use?

- a. Outlook Express
- b. Flash
- c. Dream Weaver
- d. Notepad

31. A card which contains an Integrated Circuit (IC) and a RAM is called a

- a. Master Card
- b. Smart Card
- c. Intel Card
- d. Memory Stick

32. The software which serves as a link between a particular hardware device and the operating system is called a :

- a. Device Driver
- b. Hardware Manager
- c. System Utility
- d. Component Server

33. The software that allows you to read web pages and surf the Internet is called a

- a. Web Crawler
- b. Search Engine
- c. Web Spider
- d. Web Browser

34. Which device would you use to print a very large sized drawing on paper?

- a. Printer
- b. Plotter
- c. Magnetic Drum
- d. Roller

35. We can open an icon placed on the Windows desktop by double clicking at it. Which other method can be used for opening up the File/Folder or software related to a desktop icon?

- a. Click + Enter
- b. Alt + Enter
- c. Ctrl + Enter
- d. Ctrl + Alt

36. Which HTML tag allows you to insert a line break in an HTML document?

- a. <p> tag
- b. tag
- c. <hr> tag
- d.
 tag

37. In Flash, a layer consists of a number of:

- a. frames
- b. sublayers
- c. scenes
- d. motion guides

38. The general term used for describing the input, output and memory devices is:

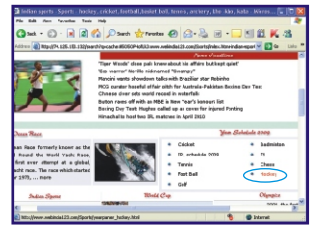
- a. Hardware
- b. Mediator
- c. Moderators
- d. Peripherals

39. The digital camera stores the images shot through it on a _____ as against the traditional cameras which stored images on a film.

- a. Magnetic Card
- b. Smart Card
- c. Memory Card
- d. Pen drive

40. Suppose you have opened the following web page on your computer. What would you do to view information on the sport 'Hockey'?

- a. Scroll down the web page
- b. Click on the Hockey link
- c. Enter the keyword Hockey in the address bar
- d. Press the Alt + Enter keys



ANSWER SHEET

Darken your choice with a HB pencil

1.	(A) (B) (C) (D)	15.	(A) (B) (C) (D)	29.	(A) (B) (C) (D)
2.	(A) (B) (C) (D)	16.	(A) (B) (C) (D)	30.	(A) (B) (C) (D)
3.	(A) (B) (C) (D)	17.	(A) (B) (C) (D)	31.	(A) (B) (C) (D)
4.	(A) (B) (C) (D)	18.	(A) (B) (C) (D)	32.	(A) (B) (C) (D)
5.	(A) (B) (C) (D)	19.	(A) (B) (C) (D)	33.	(A) (B) (C) (D)
6.	(A) (B) (C) (D)	20.	(A) (B) (C) (D)	34.	(A) (B) (C) (D)
7.	(A) (B) (C) (D)	21.	(A) (B) (C) (D)	35.	(A) (B) (C) (D)
8.	(A) (B) (C) (D)	22.	(A) (B) (C) (D)	36.	(A) (B) (C) (D)
9.	(A) (B) (C) (D)	23.	(A) (B) (C) (D)	37.	(A) (B) (C) (D)
10.	(A) (B) (C) (D)	24.	(A) (B) (C) (D)	38.	(A) (B) (C) (D)
11.	(A) (B) (C) (D)	25.	(A) (B) (C) (D)	39.	(A) (B) (C) (D)
12.	(A) (B) (C) (D)	26.	(A) (B) (C) (D)	40.	(A) (B) (C) (D)
13.	(A) (B) (C) (D)	27.	(A) (B) (C) (D)		
14.	(A) (B) (C) (D)	28.	(A) (B) (C) (D)		