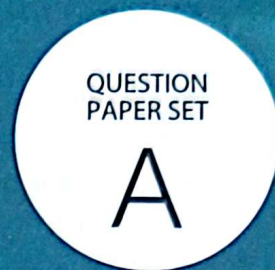


SOF NATIONAL CYBER OLYMPIAD 2023-24

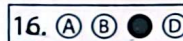


DO NOT OPEN THIS BOOKLET UNTIL ASKED TO DO SO

Total Questions: 35 | Time: 1 hr.

Guidelines for the Candidate

- You will get additional ten minutes to fill up information about yourself on the OMR Sheet, before the start of the exam.
- Write your **Name, School Code, Class, Section, Roll No.** and **Mobile Number** clearly on the **OMR Sheet** and do not forget to sign it. We will share your marks / result and other information related to SOF exams on your mobile number.
- The Question Paper comprises three sections:
Logical Reasoning (5 Questions), **Computers and Information Technology** (25 Questions) and **Achievers Section** (5 Questions). Each question in Achievers Section carries 2 marks, whereas all other questions carry one mark each.
- All questions are compulsory. There is no negative marking. Use of calculator is not permitted.
- There is only ONE correct answer. Choose only ONE option for an answer.
- To mark your choice of answers by darkening the circles on the OMR Sheet, use **HB Pencil** or **Blue / Black ball point pen** only. E.g.
Q.16: ___ means to hold down the left mouse button while you move the mouse pointer to a new place.
A. Single click B. Double click C. Dragging D. Left click
As the correct answer is option C, you must darken the circle corresponding to option C on the OMR Sheet.
- Rough work should be done in the blank space provided in this booklet.
- Return the OMR Sheet to the invigilator at the end of the exam.
- Please fill in your personal details in the space provided before attempting the paper.



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LOGICAL REASONING

1. Form a meaningful English word from the given combination of letters and find the category of that word.

T, I, W, S, R

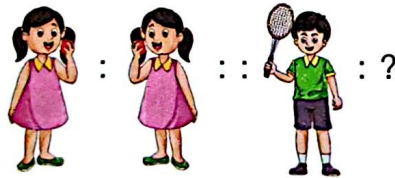
- A. Fruit B. Flower C. Body part D. Colour

2. Some children are standing in a queue. How many children are behind Varsha, if two children from the last leave the queue?

- A. 3
B. 4
C. 5
D. 2



3. There is a certain relationship between the pair of figures on the either side of :: . Identify the relationship between the given pair and find the missing figure.



- A. B. C. D.

4. Select a figure from the options in which the given figure is exactly embedded as one of its parts.



- A. B. C. D.

5. Select a figure from the options which will complete the given figure pattern.



- A. B. C. D.

SPACE FOR ROUGH WORK

6. Identify the following:

- It was first mechanical calculator to perform all the four arithmetical operations.
- It is also known as Stepped Reckoner.

A. Analytical engine
C. Leibniz calculator

B. Abacus
D. Difference engine

7. Which of the following statements hold(s) true with respect to third generation of computers?

Statement 1 : The computers became more reliable, efficient and smaller in size in comparison to previous two generations.

Statement 2 : CDC 1604 and UNIVAC 1108 were the popular computers of this generation.

A. Only Statement 1

B. Only Statement 2

C. Both Statement 1 and Statement 2

D. Neither Statement 1 nor Statement 2

8. What are the two main types of software?

(1) Application software

(2) System software

(3) Language processor software

A. Both (1) and (2)

B. Both (1) and (3)

C. Both (2) and (3)

D. None of these

9. Which of the following is/are the CORRECT statement(s) regarding the storage device shown in the given image?

A. It is an optical storage device used for data storage.

B. It is a volatile storage device that can store data permanently.

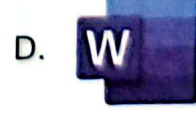
C. It is a plug and play device and can be connected to the Universal Serial Bus (USB) port.

D. All of these



10. Identify the following:

- It is a software that controls and coordinates the functioning of hardware.
- It comes under the category of system software.



SPACE FOR ROUGH WORK

11. Identify the type of brushes shown in the given images marked as (1) and (2) with respect to MS-Paint of Windows 10.

- A. (1)-Calligraphy brush, (2)-Natural brush
- B. (1)-Watercolor brush, (2)-Crayon
- C. (1)-Watercolor brush, (2)-Marker
- D. (1)-Calligraphy brush, (2)-Crayon



(1)



(2)

12. What does a URL beginning with "https://" indicate?

- A. The webpage has free access to software.
- B. You are visiting a secure website.
- C. You are visiting an insecure website.
- D. The webpage is deleting data from your browser.

13. Which of the following is the INCORRECT statement about computer network?

- A. It enables computers to communicate with each other.
- B. Each computing device in a network is called a node.
- C. Data transmission does not require use of any protocols.
- D. You can share expensive software and database among network users.

14. Which of the following statements is CORRECT regarding the given network diagram?

- A. This represents WAN (Wide Area Network).
- B. This type of network can span over the large geographical areas.
- C. An example of this type of network can be - Telephone system.
- D. All of these



15.  tool is used to _____ in MS-Word 2016.

- A. Add some text effect and typography
- B. Change the color of your text
- C. Highlight your text with some colors
- D. Clear all the applied formatting

16. What is the shortcut key to search for the text and replace it with something else in MS-Word 2016?

- A.  + 
- B.  + 
- C.  + 
- D.  + 

SPACE FOR ROUGH WORK

17. Which of the following programs of Windows 10 is used to control everything about windows' looks and settings?



18. The given logo is of _____.

A. Google Form

B. Google Sheets

C. Google Docs

D. Google Keep



19. Which of the following types of storage devices can be read by the optical disc drive shown here?

(1) CD

(2) DVD

(3) Hard disk

(4) USB drive

A. Only (1)

B. Only (3)

C. Both (1) and (2)

D. Both (2) and (4)



20. Which of the following input devices is designed to read the text printed with magnetic ink and is widely used in banks?

A. 

B. 

C. 

D. 

21. Identify the following:

- It is a computer hardware device.
- It is a printed circuit board which holds internal parts of a computer together.
- It enables other hardware devices to communicate with each other.

A. RAM

B. Motherboard

C. Expansion card

D. Hard disk

22. _____ is a type of primary memory that is generally located on motherboard.

A. Compact Disk








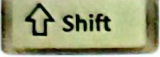

B. Digital Versatile Disc

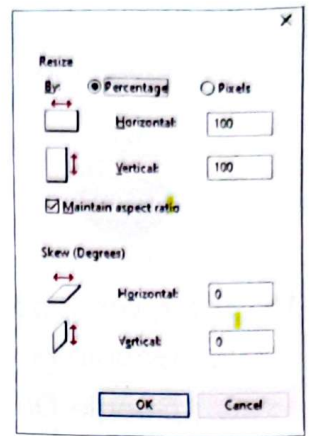
C. Memory Card

D. Random Access Memory

SPACE FOR ROUGH WORK

23. Which of the following shortcut keys when pressed, will open the given window in MS-Paint of Windows 10?

- A.  + 
- B.  + 
- C.  + 
- D.  +  + 



24. Which of the following functions can you perform using the internet?

- (1) Online classes
 - (2) E-mail
 - (3) Bill payment
 - (4) Regular news updates
- A. Both (1) and (2) B. Both (3) and (4)
C. Both (1) and (3) D. (1), (2), (3) and (4)

25. _____ is an image, that pops up on the screen, whenever a computer remains idle for a short time.

- A. Desktop B. Taskbar C. Screen Saver D. Cortana

26. What is the CORRECT way to access the given icon in MS-Word 2016?

- A. Review tab → Proofing group B. Home tab → Spelling group
C. Press  key from keyboard D. Both A and C



27. A section of Windows 10 taskbar, that tells the status and notifications about the programs running on a computer is called _____.

- A. Notification area B. Start menu C. Task view D. Links

28. Pressing  +  key combination will _____ in Windows 10.

- A. Maximize all the open windows B. Close all the open windows
C. Minimize all the open windows to taskbar D. None of these

29. What is the use of computer ports?

- A. To download the files via internet. B. To connect with other devices.
C. To increase the internet speed. D. To reduce the internet speed.

SPACE FOR ROUGH WORK

30.  is an example of an operating system. It is a/an _____.

- A. Application software
- B. System software
- C. General purpose software
- D. Language processing software

ACHIEVERS SECTION

31. How many Windows 10 related terms are hidden in the given word grid?

X	D	S	T	A	R	T	M	E	N	U
Z	E	T	A	S	K	V	I	E	W	L
Y	S	R	S	M	N	G	J	I	A	M
T	K	R	K	C	O	R	T	A	N	A
O	T	A	B	K	H	S	H	X	V	Q
P	O	U	A	R	X	T	Z	W	K	R
Q	P	F	R	W	Y	U	N	Y	O	P

- A. 2
- B. 5
- C. 6
- D. 4

32. Unscramble the letters of the given word and select the CORRECT statement about it.
TENTRAEX

- A. It creates connections among computers around the world.
- B. It creates connections inside an organization.
- C. It creates connections that are partially accessible to authorised outsiders of an organization.
- D. Both A and B

33. Pictures of some input/output devices are given below. Select which among the following are labelled INCORRECTLY.



- A. Both (1) and (2)
- B. Both (1) and (3)
- C. Both (3) and (4)
- D. Both (2) and (4)

SPACE FOR ROUGH WORK

34. Read the given statements and fill in the blanks by selecting the CORRECT option. The given image is of a/an (i). It was designed by (ii). It is known as the predecessor of modern computer because (iii).



- | | (i) | (ii) | (iii) |
|----|-------------------|-----------------|--|
| A. | Analytical engine | Charles Babbage | It has many essential features found in modern computer |
| B. | Pascaline | Charles Babbage | It was capable of doing multiplication and division operations |
| C. | Analytical engine | Blaise Pascal | It was portable |
| D. | Difference engine | Blaise Pascal | It was capable of performing large calculations |

35. Identify **X** and **Y** with respect to MS-Word 2016.

X : I am used to change the selected text to uppercase, lowercase or some other capitalization.

Y : I am used to remove all formatting from the selection.

- | | X | Y |
|----|----------|----------|
| A. | | |
| B. | | |
| C. | | |
| D. | | |

SPACE FOR ROUGH WORK



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