

**SOF INTERNATIONAL
COMPUTER SCIENCE OLYMPIAD
2024-25**

DO NOT OPEN THIS BOOKLET UNTIL ASKED TO DO SO

CLASS **4**

SET-B

Total Questions : 35 | Time : 1 hr.

Guidelines for the Candidate

1. You will get additional ten minutes to fill up information about yourself on the OMR Sheet, before the start of the exam.
2. 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.
3. The Question Paper comprises four sections:
Logical Reasoning (5 Questions), **Computer Science** (20 Questions), **Information Technology** (5 Questions) and **Achievers Section** (5 Questions).
Each question in Achievers Section carries 2 marks, whereas all other questions carry one mark each.
4. All questions are compulsory. There is no negative marking. Use of calculator is not permitted.
5. There is only ONE correct answer. Choose only ONE option for an answer.
6. 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.
7. Rough work should be done in the blank space provided in this booklet.
8. Return the OMR Sheet to the invigilator at the end of the exam.
9. Please fill in your personal details in the space provided before attempting the paper.

Name:.....

SOF Olympiad Roll No.:..... Contact No.:.....



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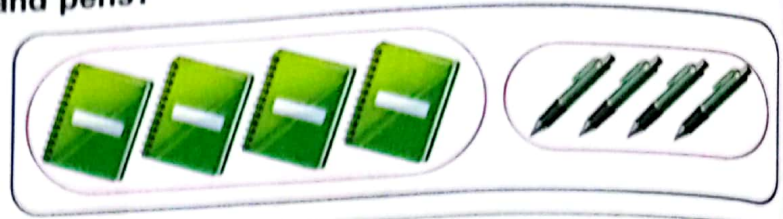
7.2+ Crores
Assessments

8
Olympiads

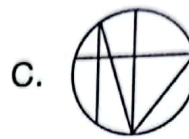
LOGICAL REASONING

- 1 How many different possible combinations of 1 note book and 1 pen each can be formed from the given note books and pens?

A. 20
B. 8
C. 16
D. 15



- 2 Select a figure from the options in which the given figure is NOT exactly embedded as one of its parts.

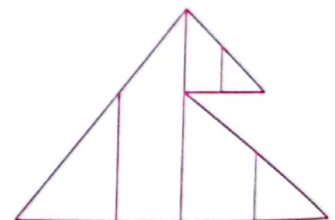


- 3 If in a certain code language, 69214 is written as HSXYR and 2387 is written as XNDU, then how will 12486 be written in the same code language?

A. ZYUDR B. ZYDUR
C. YXRDH D. YXDRH

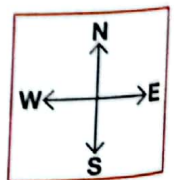
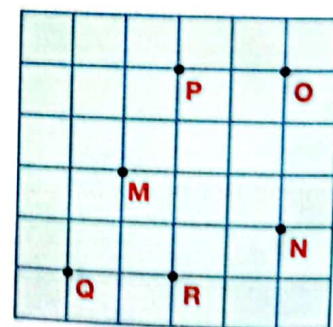
- 4 How many triangles are there in the given figure?

A. 8
B. 10
C. 6
D. 9



- 5 Which of the following points is in the South-East of P?

A. R
B. Q
C. N
D. M



SPACE FOR ROUGH WORK

6 Identify the following.

- It is a circuit board, that holds many crucial components of a computer together.
- It consists of RAM, cooling fans, expansion slots, etc.

A. Hard disk B. ROM C. Motherboard D. CPU

7 When your teacher asks a question in the class, you simply raise your hand if you know the answer. It is your brain that prompts you to raise the hand or you can say, it gives you instructions to react like this. Similarly, a computer gets all the instructions from the _____ to perform various tasks.

A. Fauxware B. Software C. Netware D. Appware

8 Which of the following is/are **CORRECT** statement(s) regarding the utility software?

- A. It can be used to avoid virus attacks.
- B. It can be used to backup your data.
- C. It can be used to recover data that has been accidentally erased.
- D. All of these

9 Which of the following is **NOT** a web browser?





10 Which of the following statements hold(s) true regarding network?

Statement 1 : WAN is used in cities, countries or continents.

Statement 2 : MAN is used in computer labs.

- A. Only Statement 1 B. Only Statement 2
- C. Both Statement 1 and Statement 2 D. Neither Statement 1 nor Statement 2


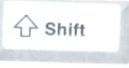


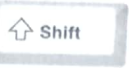






11 Select the **CORRECT** statement(s) with respect to MS-Word 2016.

1.  icon is of Spelling & Grammar, which is used for checking spellings and grammatical mistakes in a document.
2.  icon is of Thesaurus, which is used to search for synonyms for a particular selected word in a document.

A. 1 only B. 2 only C. 1 and 2 only D. None of these

SPACE FOR ROUGH WORK

12 Select the **INCORRECT** match with respect to MS-Word 2016.

- A.  +  +  - It is used to decrease the selected font size.
- B.  +  +  - It is used to increase the selected font size.
- C.  +  - It is used to make the selected or typed text very small, just below the line of text.
- D.  +  +  - It is used to make the selected or typed text very small, just in the middle of the line of text.

13 Identify the following generation of computer.

- This generation of computers was developed using integrated circuits.
- The input/output devices were keyboards, magnetic tape, monitor, printer, etc.
- ICL 1900 and IBM 360 are the examples of this computer generation.

A. First B. Second C. Third D. Fourth

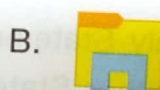
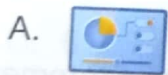
14 The function of the given icon is _____ in MS-Paint of Windows 10.

- A. To select the text or objects in your picture
- B. To insert text into the picture
- C. To fill the foreground with color
- D. To change the magnification of a part of the picture

A

15 Identify the following.

- It is used to change settings for Windows.
- It controls nearly everything about how Windows looks and works.



16 Which of the following operations has been applied on the given Image-1 to convert it into Image-2 in MS-Paint of Windows 10?

- A. Rotate right 90° B. Rotate left 90°
- C. Rotate 180° D. Flip vertical



Image-1



Image-2

17 A _____ is a set of electronic circuits on a small flat piece of silicon.

A. Wafer B. Chip C. Bit D. Buffer

SPACE FOR ROUGH WORK

- 18 Unscramble the given letters and select the CORRECT statement about it.





SWROEBR

- A. It is a software program that gives you access to the internet.
- B. It is a protocol that defines how messages are formatted and transmitted over the internet.
- C. It is used to increase the speed of the internet.
- D. It is used to create connections among computers around the world.

- 19 Match the MS-Word 2016 icons given in Column-1 with their descriptions given in Column-2.

Column-1

Column-2

- | | |
|---|--|
| (a)  | (1) It is used to remove all formatting from the selection, leaving only the normal, unformatted text. |
| (b)  | (2) It is used to apply the look of a particular selected area to other content in the document. |
| (c)  | (3) It is used to make your text pop by highlighting it in a bright color. |
| (d)  | (4) It is used to change the selected text to uppercase, lowercase or other common capitalizations. |

A. (a) - (3), (b) - (2), (c) - (1), (d) - (4)

B. (a) - (2), (b) - (3), (c) - (4), (d) - (1)

C. (a) - (2), (b) - (3), (c) - (1), (d) - (4)

D. (a) - (1), (b) - (3), (c) - (2), (d) - (4)

- 20 What is the full form of WAN?

- A. Wide Area Networking
- C. Wide Area Network

- B. Widen Area Network
- D. Widen Area Networking

- 21 Which of the following statements hold(s) true regarding intranet?

Statement 1 : It is an internal or private network that is not available to the outside world.

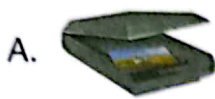
Statement 2 : It is actually an internet that is partially accessible to authorised outsiders.

- A. Only Statement 1
- B. Only Statement 2
- C. Both Statement 1 and Statement 2
- D. Neither Statement 1 nor Statement 2

SPACE FOR ROUGH WORK

- 22 Internet can be used for which of the following tasks?
- A. Buying and selling old and new goods B. Checking exam results
C. Performing digital transactions D. All of these

- 23 Which of the following is a software?



- 24 Which of the following is NOT a search engine?



- 25 Identify the following.

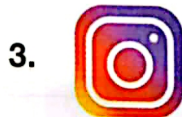
- It refers to the wireless network technology used in combination with wearables.
- The main purpose of these networks is to transmit data produced by wearable devices to the internet, and in some cases, wearables can also exchange data directly with each other.

- A. Body Panel Network
C. Wrist Panel Network

- B. Body Area Network
D. Wrist Area Network

INFORMATION TECHNOLOGY

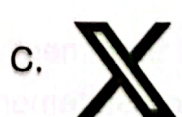
- 26 Which of the following options can run on your smartphone and allow you to share photos and videos with your family and friends?



- A. 1 and 2 only B. 2 and 3 only C. 1 and 3 only D. 1, 2 and 3

- 27 Identify the following.

- It is used to store files, documents and photos online and access them from any device.
- It is a web-based file hosting service.



SPACE FOR ROUGH WORK

28 Which of the following options CANNOT be downloaded from the given app?



1. iOS

2. X

3. Avast



A. 1 only

B. 4 only

C. 1 and 4 only

D. 1, 2 and 3 only

29 Which of the following statements hold(s) true about the given image?



Statement 1 : It is a video communication service developed by Google.

Statement 2 : It enables you to join virtual meetings via audio, video, chat, and screen sharing with up to 100 people.

A. Only Statement 1

B. Only Statement 2

C. Both Statement 1 and Statement 2

D. Neither Statement 1 nor Statement 2

30 Identify the following.

- It is a wireless technology.
- It is used for exchanging data over short distances (say 20 metres) from the device.



ACHIEVERS SECTION

31 Which of the following formatting options has been applied on the given sentence in MS-Word 2016?

Android mobile operating system is developed by Google.

1. Superscript

2. Bold

3. Italic

4. Underline

5. Text Highlight Color

A. 1, 2 and 3 only

B. 1, 3, 4 and 5 only

C. 1, 2, 3 and 4 only

D. 1, 2, 4 and 5 only

32 The device shown in the given image is a/an _____ because _____.



A. Input device, it captures a video image of the scene in front of it

B. Output device, it displays data on a piece of paper

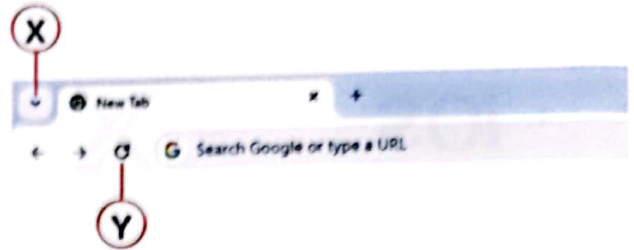
C. Storage device, it stores data for a long time

D. Output device, it provides sound output

SPACE FOR ROUGH WORK

33 What do the icons **X** and **Y** represent in the given snapshot of Google Chrome?

- A. **X** - New tabs
Y - Reload current page
- B. **X** - Recently searched tabs
Y - Reload current page
- C. **X** - Refresh
Y - Customize and control Google Chrome settings
- D. **X** - Recently searched tabs
Y - Customize and control Google Chrome settings



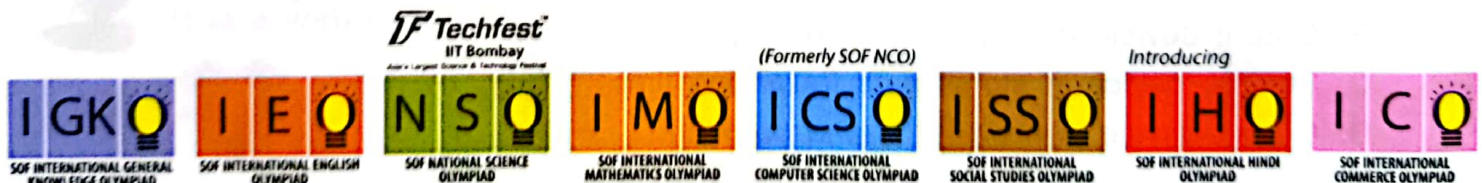
34 Which of the following is the **CORRECT** order of sequence to change the height and width of the drawing area in MS-Paint of Windows 10?


- A. File tab → Tools group → Resize → Rotate 90°
- B. Home tab → Tools group → Resize → Flip vertical
- C. File tab → Properties → Set the value of width and height in Image Properties dialog box
- D. View tab → Properties → Set the value of width and height in Image Properties dialog box

35 Select the **INCORRECT** match.

- A. Abacus - It is the first calculating device that is used for addition and subtraction.
- B. Napier's Bones - It is used to perform calculations by rotating the wheels, and it can be used for addition as well as subtraction.
- C. Step Reckoner - It is a calculating machine developed by the German mathematician-philosopher Gottfried Wilhelm von Leibniz.
- D. Difference Engine - It is a general-purpose, fully program-controlled automatic mechanical digital computer.

SPACE FOR ROUGH WORK



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