

SOF NATIONAL CYBER OLYMPIAD 2022-23

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, 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.
 

16.	<input type="radio"/> A	<input type="radio"/> B	<input checked="" type="radio"/> C	<input type="radio"/> D
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- 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 on this page before attempting the paper.



SCIENCE OLYMPIAD FOUNDATION  
Inspiring Young Minds Through Knowledge Olympiads



Name:.....

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

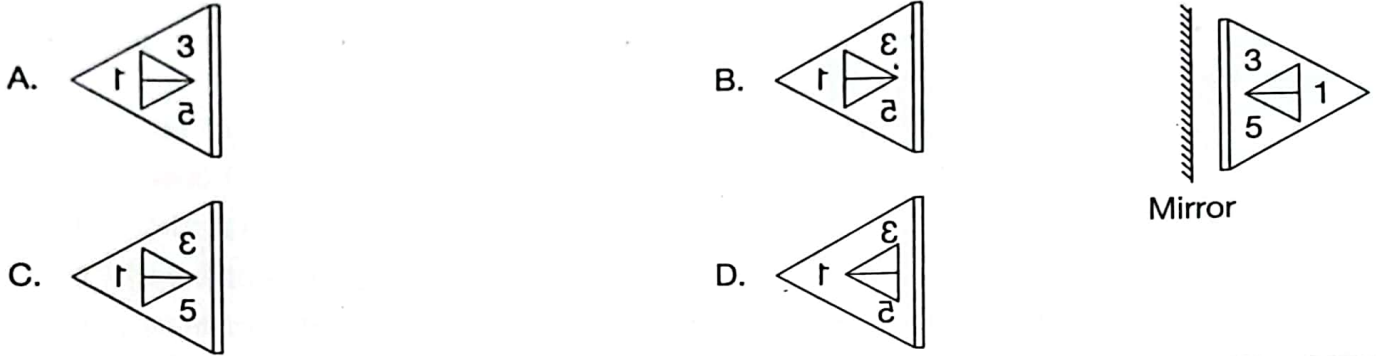
# LOGICAL REASONING

1. Select a word from the options that CANNOT be formed from the letters of the given word.

TECHNOLOGY

- A. COLONY      B. GENTLY      C. TYCOON      D. COSTLY

2. Find the correct mirror image of the given figure.



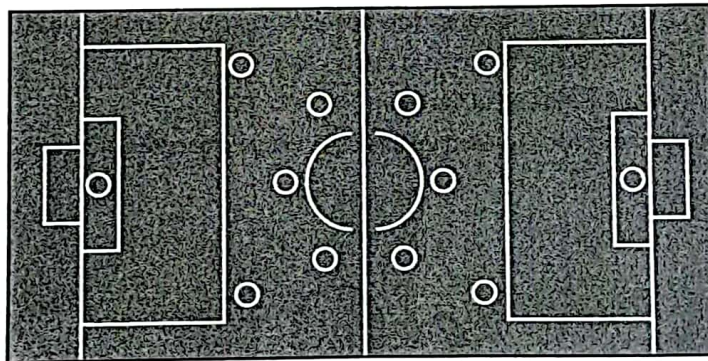
3. If the day after tomorrow will be Monday, then the day before yesterday was \_\_\_\_\_.

- A. Tuesday      B. Thursday      C. Friday      D. Sunday

4. Select the odd one out.



5. How many curved lines are there in the given figure?



- A. 12      B. 15      C. 18      D. 14

SPACE FOR ROUGH WORK



## COMPUTERS AND INFORMATION TECHNOLOGY

6. This computer input device allows you to point or select objects directly on the display screen.

- A.  B.  C.  D. 

7. The first wooden rack calculating device, which has metal rods with beads mounted on them was \_\_\_\_\_.

- A. Calculator B. Difference engine C. Punch card D. Abacus

8. Select the odd one out regarding the brushes found in MS-Paint of Windows 10.





- A.  B.  C.  D. 

9. Identify the following:

- It is a collection of webpages grouped together.
- It can be accessed using the internet.

- A. Website B. Search engine C. Web browser D. None of these





10. For opening an existing MS-Word 2016 document, click on the \_\_\_\_\_.

- A. Home tab →  B. Home tab → Clipboard group → 
- C. File tab →  D. File tab → 

11. \_\_\_\_\_ is an online storage service that is used to store and access files on the internet.

- A.  B.  C.  D. 

12. Which of the following devices can be used to store information temporarily?

- A.  B.  C.  D. 

SPACE FOR ROUGH WORK

Select the odd one out with respect to input devices of a computer.



14. What do you mean by the term online?

- A. When you are connected to the internet through an ISP or a network.
- B. When you are standing in a queue.
- C. When you are connected to a telephone.
- D. None of these

15. What is the function of the given icon in MS-Paint of Windows 10?

- A. It is used to resize and skew the picture.
- B. It shows a larger version of an image.
- C. It is used to draw shapes on the canvas.
- D. It is used to select an area of any shape by drawing on the canvas.




16. Riya has performed the following steps in a document.

(a) Typed computer

(b) Pressed  key

(c) Pressed  key

(d) Pressed  key

What would be displayed?

- A. comp
- B. compu
- C. comput
- D. compute

7. Identify the following:

- They are biggest and fastest computers.
- They have thousands of interconnected processors.
- They are used in scientific and engineering applications.
- Param Ananta is one of the examples of it.

- A. Mainframe computer
- B. Minicomputer
- C. Supercomputer
- D. Fibre computer

SPACE FOR ROUGH WORK

18. Using computers, you can \_\_\_\_\_.
- A. Attend online classes
  - B. Search information on study topics
  - C. Participate in online quiz contest
  - D. All of these

19. Which of the following statements hold(s) true?

**Statement 1 :** Analytical engine was a proposed mechanical general-purpose computer which was invented by Charles Babbage.

**Statement 2 :** Computer can be used to perform calculations as well as to store and organise information.

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

20. Which of the following computer devices CANNOT be used to display, print and show the results?

- A. Printer
- B. Punch card reader
- C. Plotter
- D. Monitor

21. Match the various tools given in Column-1 with their functionalities given in Column-2 with respect to MS-Paint of Windows 10.

**Column-1**

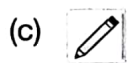
**Column-2**



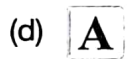
(1) To draw a perfect square



(2) For free hand drawing



(3) To add a title to your drawing



(4) To fill an area with the current color

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

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

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

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

22. Which of the following statements is INCORRECT?

- A. CPU converts the raw data into useful information.
- B. CD and DVD do not belong to the category of storage devices.
- C. Mouse is used to move cursor or pointer on screen.
- D. Scanner is an example of an input device.

SPACE FOR ROUGH WORK



Select the INCORRECT statement about MS-Word 2016 window.

- A. The zoom slider allows you to resize the document.
- B. Horizontal ruler is present just below the ribbon.
- C. The Quick Access Toolbar is located at the top-left corner of the window.
- D. The Title bar is located at the bottom of the window.

24. Identify the following :

- It acts like a container in a computer system.
- It stores data, information and settings that are used within a computer program.
- These are saved with a unique name within a directory.

- A. File                      B. Pointer                      C. Button                      D. Both B and C

25. Select the INCORRECT match.

- A. Nougat – A laptop developed by Google
- B. iPhone XS – A smartphone developed by Apple Inc.
- C. Farmville – A gaming app
- D. Xbox – A gaming console

26. Which of the following statements hold(s) true about the given device?

**Statement 1 :** It is one of the storage devices of a computer.

**Statement 2 :** It has a touch screen to store data.



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

27. It produces the hard copies of the images, text or any other information.



28. An output device that enables user to project the output on a large surface is \_\_\_\_\_.



SPACE FOR ROUGH WORK

29. \_\_\_\_\_ is a service which allows us to send the messages in electronic mode on the internet.

- A. Web browser      B. Server      C. E-mail      D. Web page

30. Given image is of a microcomputer. What do you understand by a microcomputer?

- A. A small computer with a microprocessor.  
B. A computer used by scientists to research about micro-technology.  
C. A computer which is developed by merging two mainframe computers.  
D. A computer used for robotics.



### ACHIEVERS SECTION

31. Which of the following statements hold(s) true regarding Global Positioning System (GPS)?

**Statement 1 :** This is a navigation system that provides the geographical information based on the data received by satellites.

**Statement 2 :** It is a digital payment app, that allows to transfer money through internet.

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

32. Match the following.

**Column-1**

**Column-2**



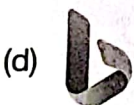
(1) Search engine



(2) Social networking site



(3) E-commerce website



(4) Web browser

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

SPACE FOR ROUGH WORK

Which operation would change the given Image-1 into Image-2 in MS-Paint of Windows 10?

- A. Flip vertical
- B. Rotate 180°
- C. Skew
- D. Flip horizontal



Image-1



Image-2

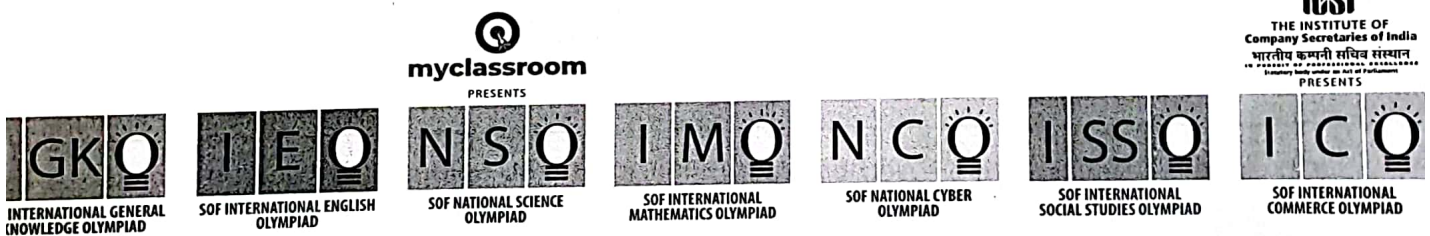
4. Internet Service Providers (ISP) are used \_\_\_\_\_.
- A. To transfer money
  - B. To do online shopping
  - C. To show real time traffic updates
  - D. To provide access to the internet and other service to the individuals

5. The given image is of a/an \_\_\_\_\_ app.



- A. Online payment
- B. Gaming
- C. Social networking
- D. Online shopping

SPACE FOR ROUGH WORK



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**National Office:** Plot 99, First Floor, Sector 44 Institutional area, Gurugram -122 003 (HR) India  
Email: [info@sofworld.org](mailto:info@sofworld.org) | Website: [www.sofworld.org](http://www.sofworld.org)  
Regd. Office: 406, Taj Apt., Ring Road, New Delhi-110 029  
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