CLASS 5

QUESTION PAPER SET A

NCO

SOF NATIONAL CYBER OLYMPIAD 2022-23

DO NOT OPEN THIS BOOKLET UNTIL ASKED TO DO SO

Total Questions: 50 | 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, 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 three sections:

   Logical Reasoning (10 Questions), **Computers and Information Technology** (35 Questions) and **Achievers Section** (5 Questions).

   Each question in Achievers Section carries 3 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: Which of the following is a type of printer?

   A. Cathode Ray Tube
   B. Light Emitting Diode
   C. Thermal Flatbed
   D. Liquid Crystal Display

   As the correct answer is option C, you must darken the circle corresponding to option C on the OMR Sheet.

   16. Ⓐ Ⓑ ● Ⓓ
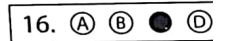
7. Rough work should be done in the blank space provided in this booklet.

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 on this page before attempting the paper.

SOF

SCIENCE OLYMPIAD FOUNDATION
Inspiring Young Minds Through Knowledge Olympiads

Name:...

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Which of the following words cannot be formed from the letters of the given word?

TRANSFORMER

A. FORMAT
B. REFORM
C. MACRON
D. FASTEN

Study the given patterns carefully and tell the number of paper boats in Pattern 24.
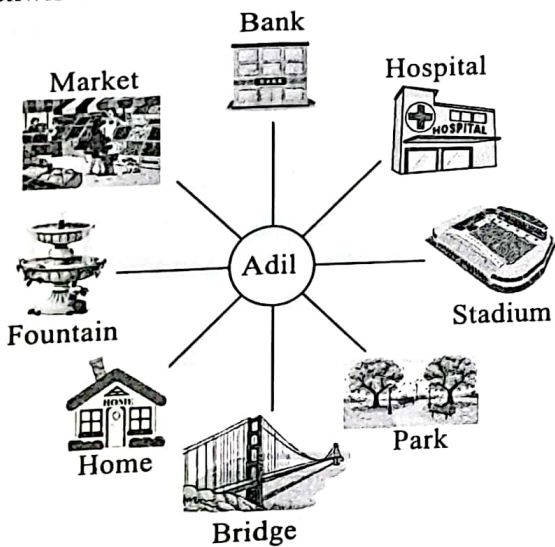

Pattern 1   Pattern 2   Pattern 3

A. 71
B. 74
C. 77
D. 72

In a certain code language, if REFUND is written as SFGTMC, then how will CENTRE be written in the same code language?

A. DFOUSF
B. BDMSQD
C. EGPRPC
D. DFOSQD

If Adil is facing the Stadium, then what will he be facing if he turns 90° anti-clockwise and then 180° clockwise?

A. Bank
B. Bridge
C. Fountain
D. Park

5. Which of the following Venn diagrams best represents the relationship amongst, "Cones, 3D Shapes and Cuboids"?
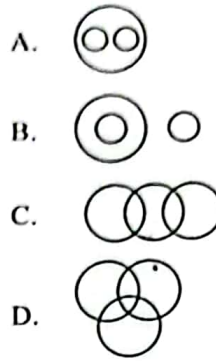
6. There are 21 friends sitting in a row of a movie theatre. Anjali is 8th from the left end and Pooja is 5th from the right end. How many friends are there between Anjali and Pooja?

A. 9
B. 7
C. 8
D. 10

7. Select the odd one out.

A. LNP
B. EGI
C. HJM
D. SUW

8. Select the correct mirror image of the given figure.

Mirror

A.

B.

C.

D.

9. Pawan joins an online coaching session from 7th November 20XX. If every Sunday and Saturday

is a holiday, then for how many days will he attend the online coaching sessions in that month?

NOVEMBER 20XX						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

A. 18
B. 22
C. 20
D. 26

10. Which of the following options will complete the pattern in the given figure?
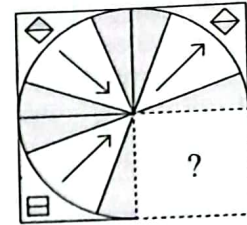
A.
B.
C.
D.

COMPUTERS AND INFORMATION TECHNOLOGY

11. Which of the following devices is used to scan photographs?

A.

B.

C.

D.

12. Identify the following:
   - It is the fastest and the smallest computer memory and it is located inside the CPU.
   - It holds the instructions that are currently being processed by the CPU.

A. Flash memory
B. Secondary memory
C. Register memory
D. Read only memory

13. Which of the following file formats is used for video files?

A. .RTF
B. .TIFF
C. .BMP
D. .WMV

14. Which of the following steps should be followed to increase the size of desktop icon in Windows 10?

A. Right click on any icon → View → Large
B. Right click on any icon → Properties → l icons
C. Right click on desktop → View → Large
D. Right click on desktop → Arrange → l icons

15. To open an existing picture on your comput to File tab and select _____ in MS-Pa Windows 10.

A.
B.
C.
D.

16. Find the odd one out.

A.
B.
C.
D.

17. Which of the following options of Paragraph group of Home tab is used to control the space between lines of text in MS-PowerPoint 2016?

A.

B.

C.

D.

18. All the URLs are translated into numeric address using the _____. The numeric addresses, are called the _____.

A. Web browser, Links
B. DNS, IP addresses
C. Search engine, Protocols
D. HTTP, DNS

19. Which of the following statements is INCORRECT about computer network?

A. In case of any hardware failure, computer network can use alternative resource for communication.
B. Sharing of hardware and software is not supported by computer network.
C. We can add new devices on the computer network for scalability.
D. None of these

20. Which of the following statements hold(s) true about AVI file formats?

Statement 1 : It is a digital video file format for Windows.
Statement 2 : In it, sound and picture elements are stored as interleaved chunks in the file.

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

21. Which of the following statements hold(s) true about SmartArt in MS-Word 2016?

Statement 1 : It is used to add the screenshot of any window.
Statement 2 : It can be used to visually communicate information in the form of Venn diagram, graphical list, process diagram, etc.

A. Only Statement 1
B. Only Statement 2

C. Both Statement 1 and Statement 2
D. Neither Statement 1 nor Statement 2

22. Which of the following is a Visual Display Unit that is connected to a computer by means of a VGA connector?

A.

B.

C.

D.

23. is a type of _____ software.

A. System
B. Application
C. Backup
D. Compression

24. Which of the following statements is/are CORRECT about SRAM?

A. It does not need to be refreshed on a regular basis.
B. It is a non-volatile memory.
C. It holds data as long as it receives the power.
D. Both A and C

25. 1 GB = _____.

A. 1024 bytes
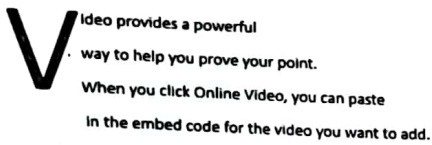B. 1024 KB
C. 1024 MB
D. 1024 TB

26. Find the odd one out.

A. CPU
B. Operating system
C. Hard disk
D. Keyboard

27. Which of the following is NOT a type of optical drives?

A. Blu-ray
B. CD-ROM
C. DVD-ROM
D. SDD

28. Which of the following methods will create the replica of a drawing in MS-Paint of Windows 10?

A. Select the drawing and hold the `Tab` key while dragging it.

B. Select the drawing and press `Alt` key.

C. Select the drawing and press `Ctrl` + `Page Up` keys.

D. Select the drawing and hold the `Ctrl` key while dragging it to another location.

29. Which of the following positions of the Drop Cap features has been represented in the given snapshot in MS-Word 2016?

Video provides a powerful way to help you prove your point. When you click Online Video, you can paste in the embed code for the video you want to add.

A. Out margin
B. Dropped
C. In margin
D. None of these

30. Select the odd one out regarding cloud storage services.

A.

B.

C.

D.

31. _____ is a type of ROM in which the recorded information can be erased electrically.

A. RAM
B. PROM
C. EPROM
D. EEPROM

32. Which of the following is a very popular mobile app that informs people about their potential risk of Covid-19 infection?

A.

B.

C.

D. Both A and C

33. Which of the following statements is/are CORRECT about expansion cards?

A. It allocates power to other devices.
B. It offers features that are not provided by motherboard.
C. It gives ability to users to add new devices to their computer.
D. Both B and C

34. Select the odd one out.

A.

B.

C. avast

D.

35. What is the purpose of an extranet?

A. It shares information within an organisation only.
B. It extends an intranet over the Internet.
C. It provides a backup network connection.
D. It adds extra network security.

36. Match the following and select the CORRECT option.

	Column-I		Column-II
(a)	DVD-ROM	(i)	It can be erased, written or recorded multiple times.
(b)	Pen-drive	(ii)	It allows you to record or to write information only once.
(c)	DVD-RW	(iii)	Data on these discs cannot be erased or added. These are pre-recorded discs.
(d)	DVD-R	(iv)	It is a compact secondary storage device that is also known as USB flash drive.

A. (a)-(ii), (b)-(iv), (c)-(i), (d)-(iii)
B. (a)-(iii), (b)-(iv), (c)-(i), (d)-(ii)
C. (a)-(i), (b)-(ii), (c)-(iv), (d)-(iii)
D. (a)-(iv), (b)-(i), (c)-(iii), (d)-(ii)

Which of the following is/are NOT e-mail client?

A. Gmail
B. IRC
C. Outlook
D. Both A and C

A. Arrange the current selection in alphabetical or numerical order.
B. Move the current selection to next line.
C. Show paragraph marks and other hidden symbols.
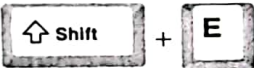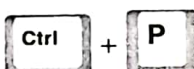D. Both A and B

38. Arrange the Android versions in ascending order (from the earliest release to the latest release).

A. Android 10, Oreo, Pie, Nougat, Android 11, Android 12
B. Nougat, Oreo, Pie, Android 10, Android 11, Android 12
C. Nougat, Android 11, Pie, Oreo, Android 10, Android 12
D. Android 11, Nougat, Android 10, Oreo, Pie, Android 12

39. Which of the following programs in Windows 10 will show you the processes, services and programs that are currently running on your computer?

A. Control Panel
B. Task Manager
C. Address Bar
D. System Tray

40. Which of the following shortcut keys is used to change the image properties in MS-Paint of Windows 10?

A. Ctrl + E
B. Shift + E
C. Ctrl + H
D. Ctrl + P

41. Using A/Z feature, you can _____ in MS-Word 2016.

42. Which of the following presentation views allows you to play the slides without switching to a full-screen slide show in MS-PowerPoint 2016?

A.
B.
C.
D.

43. The domain name ".com" represents _____ websites.

A. Communication
B. Commercial
C. Comprised
D. All of these

44. Which of the following statements is/are CORRECT about intranet?

(i) It is a public network based on internet protocol.
(ii) It belongs to an organisation and is only accessible by members of organisation.
(iii) It is a private network based on internet protocol.

A. Only (i)
B. Only (ii)
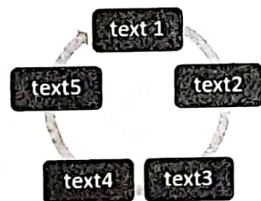C. Both (i) and (ii)
D. Both (ii) and (iii)

45. Which of the following technologies allows you to make voice calls using a broadband internet connection instead of phone line?

A. VOIP
B. IVR
C. Icommerce
D. Air-wing

ACHIEVERS SECTION

46. Which of the following options will allow you to add visual presentation as shown in the image in MS-Word 2016?
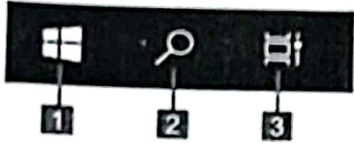

A.
B.
C.
D.

47. Using ⬈ icon, you can _____ in MS-Paint of Windows 10.

A. Resize and skew the picture
B. Rotate or flip the picture/selection
C. View the picture in full screen
D. Select the part of the picture

48. Which of the following marked options when clicked, will open the task view in Windows 10?

A. 1
B. 2
C. 3
D. Both 1 and 2

49. Select the INCORRECT match.

A. - It is a video meeting service and can be used by anyone on any device.

B. - It is an instant messaging and video calling service.

C. - It is a photo sharing and storage service for unlimited storage of photos.

D. - It is a cloud based storage service to store, share and collaborate on files.

50. Match the following and select the CORRECT option in MS-PowerPoint 2016.

Column-I		Column-II	
(a) Ω	(i)	Add artistic flair to your document using WordArt textbox.	
(b) π	(ii)	Number the slides in your presentation for reference.	
(c) #	(iii)	Add common mathematical equations to your document.	
(d) A	(iv)	Add symbols that are not on your keyboard like currency and copyright.	

A. (a)-(i), (b)-(iv), (c)-(ii), (d)-(iii)
B. (a)-(ii), (b)-(iii), (c)-(i), (d)-(iv)
C. (a)-(iii), (b)-(i), (c)-(iv), (d)-(ii)
D. (a)-(iv), (b)-(iii), (c)-(ii), (d)-(i)

SPACE FOR ROUGH WORK