Total Questions: 50

Time: 1 hour

DO NOT OPEN THIS BOOKLET UNTIL INSTRUCTED TO DO SO

- All questions are compulsory.

- Read the instructions on the **ANSWER SHEET** and fill in your **NAME**, **CLASS** and **OTHER INFORMATION**.

- To mark your choice of answer by darkening the circles in the **ANSWER SHEET**, use a **BLUE/BLACK BALLPEN** only.

- You **MUST** record your answers on the **ANSWER SHEET** only.

- There are **50 MULTIPLE CHOICE QUESTIONS**. Use the information provided to choose the **BEST** possible answer among the four options. On your **ANSWER SHEET** fill in the circle that matches your answer.

- Marks are **NOT** deducted for incorrect answers.

- Return the **ANSWER SHEET** to the invigilator at the end of the examination.

- You are **NOT** allowed to use a calculator. You may use a ruler and spare paper for rough work.

CYBER

This question paper contains a total of 50 questions divided into three sections - A, B and C. Read the instructions carefully before attempting these questions.

Section A (Logical Reasoning)

1. Choose the pair in which the words are differently or unusually related.

   (A) Hard : Soft
   (B) Long : High
   (C) Sweet : Sour
   (D) Pointed : Blunt

2. The sum of the ages of a daughter and her mother is 56 years. After 4 years, the age of the mother will be 3 times that of her daugther. Their respective ages are

   (A) 10 years, 46 years
   (B) 12 years, 44 years
   (C) 11 years, 45 years
   (D) 13 years, 43 years

3. Pick the odd one out.

   (A) DEF
   (B) HIJ
   (C) NOP
   (D) UVW

4. In a certain code language 35796 is written as 44887. How is 46823 written in that code?

   (A) 57914
   (B) 55914
   (C) 33934
   (D) 55714

5. If clock is called television, television is called radio, radio is called oven, oven is called grinder and grinder is iron, in what will a lady bake?

   (A) Radio
   (B) Oven
   (C) Grinder
   (D) Iron

6. M is N's son, N and Q are sisters, Z is Q's mother. P is son of Z, then which of the following statements is true?
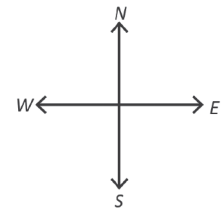
   (A) P and M are cousins
   (B) P is maternal uncle of M
   (C) Q is M's grandmother
   (D) N and P are sisters

7. Find out the missing term in the following: 2048. 256, 32, 4, __?

   (A) 1
   (B) $\frac{1}{2}$
   (C) $\frac{1}{4}$
   (D) $\frac{1}{8}$

8. A two-digit number is such that the product of the digits is 12. If 36 is added to this number the digits interchange their places. Find the number.

   (A) 26
   (B) 34
   (C) 68
   (D) 62

9. From the alternatives which one is the same as 7 : 56 : 70.

   (A) 9 : 72 : 90
   (B) 9 : 54 : 70
   (C) 8 : 56 : 88
   (D) 8 : 64 : 78

10. A person starts from his house and walks 100 m straight towards south, then takes left turn and walks 75 m straight towards east. How far is from starting point?

(A) 175 m   (B) 125 m

(C) 100 m   (D) 25 m

Section B (Subject Specific)

11. Drum Printer and Chain Printer are types of _____.

(A) Line Printer   (B) Character Printer

(C) Dot Matrix Printer   (D) Inkjet Printer

12. Which of the following is not a type of gateway?

(A) Unidirectional   (B) Bidirectional

(C) Tridirectional   (D) All of these

13. A master document contains _____, each of which contains a pointer to a file on a disk.

(A) References   (B) Subdocuments

(C) Placeholders   (D) Bookmarks

14. Which of the following features is used to progress the slide show automatically while speaking on the topic?

(A) Custom Animation   (B) Rehearse Timing

(C) Slide Transition   (D) Either (A) or (B)

15. When a chart is placed on _____, it is much larger and there is no other data on it.

(A) primary sheet   (B) reference sheet

(C) exclusive sheet   (D) chart sheet

16. Which program is used to view an HTML document?

(A) Text editor   (B) Web browser

(C) Image Editor   (D) Video Editor

17. Which of the following is not a principle of a good programming style?

(A) test the program   (B) provide a welcome message

(C) use descriptive variable names   (D) All of these

18. What will be the output of the following expression?

22 % 3

(A) 7   (B) 1

(C) 0   (D) 5

19. Which AI technique enables the computers to understand the associations and relationships between objects and events?

(A) Relative Symbolism   (B) Pattern Matching

(C) Cognitive Science   (D) Heuristic Processing

20. Which of the following is the best method to quickly find a file or document in Google Drive if we forget its exact name?

    (A) Enter the related keywords in the search bar   (B) Sort the files by date modified

    (C) Sort the files by file type   (D) Create labels and apply them to files

21. Which of the following is the use of hashtag (#) in social media?

    (A) It is used to denote a hyperlink   (B) It is used to highlight keywords or topics

    (C) It is used to indicate a mention   (D) It is used to denote a direct message

22. Data is transmitted to and from the Central Processing Unit (CPU) via integrated wires. These wires are referred to as _____.

    (A) Lines   (B) Wires

    (C) Bus   (D) Thread

23. Which of the following defines the arrangement of wires as well as devices along with the data transmission paths?

    (A) Topology   (B) Internet

    (C) Network   (D) Protocol

24. What feature of MS Word is utilised to generate a document resembling a newspaper?

    (A) Tab stops   (B) Columns

    (C) Tables   (D) Bullets & numbering

25. Which of the following is an example of an action that you can assign to a slide object or an action button?

    (A) Play a sound   (B) Hyperlink

    (C) Run a macro   (D) All of these

26. It is possible to consider a numeric number to be a label value if the value proceeds with _____.

    (A) Exclamation (!)   (B) Ampersand (&)

    (C) Apostrophe(')   (D) Hash (#)

27. Which of the following protocols can be used by a user to retrieve files from another computer on the Internet?

    (A) HTTP   (B) Telnet

    (C) Usenet   (D) FTP

28. Which of the following malware types do not possess the capability to replicate or multiply through the process of infection?

    (A) Rootkits   (B) Viruses

    (C) Trojans   (D) Worms

29. While designing a webpage in HTML, it is possible to place the <SCRIPT>... </SCRIPT> tag within the _____.

    (A) <Head>   (B) <Body>

    (C) <Title>   (D) Both a and b

30. The process of determining where errors exist in a program and fixing them is referred to as _____.

(A) Assessing
(B) Searching

(C) Debugging
(D) Removing

31. What will be the output of the following code?

```
a = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
for i in range(0, len(a)):
    if a[i] % 2 == 0:
        print(a[i], end = " ")
```

(A) 1 3 5 7 9
(B) 1 3 5 7 9

(C) 2 4 6 8 10
(D) 2 4 6 8 10

32. Which sensors are utilised for measuring the distance between a robot and an object?

(A) Positioning
(B) Shapes

(C) Proximity
(D) Camera

33. In the realm of Virtual Reality, HMD is an acronym that stands for _____.

(A) Hand Mode Data
(B) Head Mounted Display

(C) Head Mouth Display
(D) Head Masked Display

34. In a computer network that is vulnerable to interference from electrical sources, what form of transmission media is the safest and most reliable way to convey data?

(A) Optical fiber
(B) Twisted pair

(C) Microwave
(D) Coaxial cable

35. Match the following:

Column A	Column B
(i) Normal	(a) you have the option of printing off your notes, or simply using the notes as prompts for yourself while you present the material.
(ii) Slide Sorter	(b) the view that enables you to present your slides to the audience in a view that fills the entire screen.
(iii) Notes Page	(c) gives an overview of all of your slides, which makes it easier to rearrange them in the order that you choose.
(iv) Slide Show	(d) the mode of editing in which you will spend the majority of your time in order to produce your slides.

(A) (i) – (d), (ii) – (b), (iii) – (a), (iv) – (c)
(B) (i) – (d), (ii) – (c), (iii) – (a), (iv) – (b)

(C) (i) – (c), (ii) – (a), (iii) – (d), (iv) – (b)
(D) (i) – (b), (ii) – (d), (iii) – (a), (iv) – (c)

Instruction: Q. 36 to 40 are two-key based questions having four options A, B, C and D out of which TWO are correct.

36. Which lines of code have errors?

```
a = int("Enter the value of a : ")
for i in range(0,10):
    if a = 50:
        print("a is fifty")
        break
    else:
        print("a is not 50")
```

(A) a = int("Enter the value of a : ")   (B) if a = 50:

(C) print("a is fifty")   (D) else:

37. A CAPTCHA on a website _____ .

(A) Allows spam and password decryption   (B) Prevents fake registrations or sign-ups

(C) Prevents a bot to access the website   (D) Allows intruders to attack the websites

38. An Anti-virus program is a program that _____.

(A) Wipes a computer clean, so that all the files, including the viruses, are erased

(B) Slightly reduces the effects of a virus

(C) Works to prevent, detect, and remove viruses and other types of malware

(D) Updates themselves automatically to provide protection against the latest viruses

39. Who were the creators of the first spreadsheet, VisiCalc?

(A) Dan Bricklin   (B) Elon Musk

(C) Bob Frankston   (D) Rita Cucchiara

40. Which of the following is the correct use of print() function?

(A) print('Krishna','Kumar', \n)   (B) print('Krishna','Kumar', sep='-')

(C) print('Krishna','Kumar', end='*')   (D) print('Krishna Kumar', end=**)

Section C (Competency Enhancement)

41. Ramesh wants to connect his computer to the Internet via telephone or cable lines. Suggest him the suitable device for the same.

(A) Switch   (B) Bridge

(C) Modem   (D) Dialer

42. Simi's father gave her a device as shown below:

Help her identify the device.

(A) Wheeled Mouse   (B) Finger Mouse

(C) Trackball Mouse   (D) None of these

43. Sujata wants to create a table to calculate marks of her classmates. For that she needs to collect data but she is unable to create a structured data set. Which feature of Word would help her do so?

    (A) Show Line Numbers (B) Tables

    (C) Text Highlight Color (D) Shading

44. Pratibha is making a presentation on 'My India'. She wants to create a presentation by using a pre-defined layout. Which feature of Impress can she use to solve her problem?

    (A) Template (B) Bookmark

    (C) Layout (D) In-built Layout

45. Anika has developed a X in a conversational style which she updates on regular basis. It can be written in an informal way for public viewing. Identify X.

    (A) Website (B) Webpage

    (C) Blog (D) Newsgroup

46. Sunny is writing a Python program to create a basic calculator. He wants his program to appear interactive, and he wants each statement to be defined within the program itself. Which of the following would help her add a phrase about the statement in the Python program?

    (A) Shell (B) Comments

    (C) Conditional Statements (D) Keywords

47. Sukhi wants to buy a wearable smart device that can detect heartbeats. The device is also able to make & receive phone calls, accept verbal commands, and play music also. Suggest him an appropriate device.

    (A) Smartwatch (B) Smart Ring

    (C) Smart Necklace (D) Smart Shoe

48. Amit wants to buy a printer for his shop that can print up to 2 to 10 pages per minute with better quality. The printer that he wants to buy should produce high-quality print output by spraying drops of ink. Which of the following printers meets his requirements?

    (A) Inkjet printer (B) Line printer

    (C) Character printer (D) Dot Matrix printer

49. Mr. John is a small businessman who runs a hardware company. He has been experiencing problems with his accounting department, which he depends on to provide sales reports. He wants to share information among his seven computer stations and have a central printing area. What type of network would you recommend to Mr. John?

    (A) LAN (B) MAN

    (C) WAN (D) None of these

50. Your teacher has asked you to create an ordered list in HTML that starts with the letter f. Which of the following would you use?

    (A) <ol start = "f"> (B) <ol type = "f" start ="f">

    (C) <ol type = "A" start = "6"> (D) <ol type = "a" start = "6">