A

Series **A**

CODE : 10

Write here Roll Number and Answer Sheet No.

Question Booklet Sl. No.

Roll No.

Answer Sheet No.

Duration : 1 Hour

Total Marks : 100

Declaration by Invigilator :
I Certify that I have checked that the Roll Number and the Answer Sheet Number written by the Candidate on the question paper and the OMR Sheet are correct and the Answer Sheet Number matches the Question Booklet Number exactly.

Signature of the Invigilator with Name

Declaration by andidate :
I undertake not to employ any unfair means in this exam. I have checked the Question Booklet Number and the Answer Sheet Number and both are identical and have been correctly entered by me wherever indicated.

Signature of the Candidate with Name

Read the following instructions carefully before you begin to answer the questions.

IMPORTANT INSTRUCTIONS TO CANDIDATES

A

1. The Roll No. is a **7** digit No., the candidate needs to circle the Roll No. in the Answer Sheet.
2. The appropriate Circle should be shaded for Roll No. This should be done carefully because only the shaded circles are scanned.
3. Valuation of Answer Sheet will be done on the computer. Candidate should not make any stray marks on the Answer Sheet, tamper with or mutilate it. Otherwise it will not be evaluated.
4. Please check all the pages of the Booklet carefully. In case of any defect, please ask the Invigilator for replacement of the Booklet.
5. You must not tear off or remove any sheet from this Booklet. The Answer Sheet must be handed over to the Invigilator before you leave the Examination Hall.
6. All questions are compulsory and each Question carries **2** marks.
7. **The paper carries negative marking. For each wrong answer 0.50 mark will be deducted.**
8. This Booklet contains 50 questions.
9. Use of Calculator/Palmtop/Laptop/Other Digital Instrument/Mobile/Cell Phone/Pager is **not** allowed.
10. andidates found guilty of misconduct/using unfair means in the Examination Hall will be liable for appropriate penal/legal action.
11. **No Rough Work is to be done on the Answer Sheet and only single OMR Answer Sheet will be provided.**
12. This booklet contains **12** pages.
13. **Directions** : Each question or incomplete statement is followed by four alternative suggested answers or completions. In each case, you are required to select the one that correctly answers the question or completes the statement and blacken (●) appropriate circle a, b, c or d by Blue / Black Ball-Point Pen provided by the board against the question concerned in the Answer Sheet.
14. Mark your answer by shading the appropriate circle against each question. The circle should be shaded completely without leaving any space. The correct method of shading is given below.

Wrong Method	Wrong Method	Wrong Method	Correct Method
○ ⊗ ○ ○	○ ⊘ ○ ○	○ ◉ ○ ○	○ ● ○ ○

The Candidate must mark his/her response after careful consideration, as it is not possible to change the response once it is marked.

15. There is only one correct answer to each question. You should blacken (●) the circle of the appropriate column, viz., a, b, c or d. If you blacken (●) more than one circle against any one question, the answer will be treated as wrong.
16. Use the space for rough work given at the beginning of the Question Booklet only and not on the Answer Sheet.
17. **You are NOT required to mark your answers in this Booklet. All answers must be indicated in the Answer Sheet only.**

DO NOT WRITE HERE

SPACE FOR ROUGH WORK

SPACE FOR ROUGH WORK

1. 1 joule is equivalent to ____ calories.
   (a) 4.186 (b) 0.148
   (c) 0.24 (d) 0.42

2. The algebraic sum of all the current meeting at a junction point is always
   (a) One Amp. (b) Zero
   (c) Infinite (d) More than the incoming current

3. Unit of energy is
   (a) Watt (b) Volt-sec
   (c) Watt-sec (d) Calories

4. For ideal voltage source, internal resistance is
   (a) 0 (b) 1
   (c) Infinite (d) annot be measured

5. The phenomenon of cutting flux lines by the conductor to get the induced emf in the conductor or coil is called
   (a) electromagnetic conduction (b) electromagnetic induction
   (c) induced emf (d) permanent magnetic field

6. s per Faraday's second law, induced emf is
   (a) Inversely proportional to the rate of change of flux linkages
   (b) Directly proportional to the rate of change of flux linkages
   (c) Inversely proportional to the number of turns of the coil
   (d) Directly proportional to the electromagnetic conduction

7. With respect to alternating current, 1 cycle corresponds to
   (a) $\pi/2$ radians (b) π radians
   (c) 2π radians (d) 4π radians

8. Barrier potential of Germanium is
   (a) 0.6 V b) 0.7 V
   (c) 0.2 V (d) 0.1 V

9. Applying external DC voltage to any electronic device is called
   (a) Supplying (b) Forwarding
   (c) Electrolysing (d) iasing

10. The reverse characteristics of a diode are plotted in
   (a) First quadrant (b) Second quadrant
   (c) Third quadrant (d) Fourth quadrant

11. A _____ is made up of a circular thin plastic jacket coated with magnetic material.
   (a) Hard Disk (b) Floppy Disk
   (c) Compact Disk (CD) (d) igital Video Disk (DVD)

12. A _____ is an affordable connection point for different types of devices on a network.
   (a) Bridges (b) Switches
   (c) Hub (d) Routers

13. _____ is inexpensive and fast, but its access time is longer than that of magnetic disk.
   (a) Compact Disk (CD) (b) Digital Video Disk (DVD)
   (c) lue-ray (d) Universal Serial Bus (USB)

14. Each MAC address is a _____ hexadecimal numbers.
   (a) 10-digit (b) 12-digit (c) 24-digit (d) 32-digit

15. The _____ is the box that protects the internal electronic components from damage.
   (a) System Unit
   (b) Hard Disk
   (c) rithmetic Logic Unit (ALU)
   (d) Control Unit

16. An IPv6 address is represented by _____ of hexadecimal (base-16) numbers separated by colons.
   (a) Four groups (b) Six groups
   (c) Eight groups (d) Ten groups

17. The DNS servers are placed in hierarchical order. At the top level, there are _____ servers called root servers.
(a) 5 (b) 7 (c) 9 (d) 13

18. _____ implies that the co-ordinates of a cell are not changed when a formula is copied from one cell to another.
(a) Absolute referencing (b) Relative referencing
(c) Common referencing (d) Distant referencing

19. _____ is where data and instructions are held.
(a) Floppy Disk (b) Memory
(c) Arithmetic Logic Unit (ALU) (d) ontrol Unit (CU)

20. The _____ acts as the nerve centre that sends control signal to all other units.
(a) Memory Card (b) Universal Serial Bus (USB)
(c) Control Unit (d) Arithmetic Logic Unit (ALU)

21. _____ devices are used to display the result or information to the user.
(a) Storage (b) Communication
(c) Input (d) Output

22. The Arithmetic Logic Unit (ALU) includes a group of _____ high-speed memory locations built directly into the Central Processing Unit (CPU) that are used to hold the data currently being processed.
(a) Registers
(b) Cache
(c) Random Access Memory (RAM)
(d) Read Only Memory (ROM)

23. _____ refers to memory that can be selected and used randomly.
(a) Random Access Memory (RAM)
(b) Read Only Memory (ROM)
(c) Universal Serial Bus (USB)
(d) Memory Card

24. The information stored in _____ disappears the very moment the machine is turned off.
(a) Universal Serial Bus (USB) (b) Compact Disk (CD)
(c) Random Access Memory (RAM) (d) Read Only Memory (ROM)

25. _____ is permanently built into the computer at the time of production.
(a) Random Access Memory (RAM)
(b) Read Only Memory (ROM)
(c) Floppy Disk
(d) Universal Serial Bus (USB)

26. _____ is a network contained within a user's home that connects a person's digital devices, from multiple computers and their peripheral devices.
(a) Local Area Network (LAN) (b) Wide Area Network (WAN)
(c) Campus Area Network (CAN) (d) Home Area Network (HAN)

27. _____ permanently stores a set of instructions which instructs the computer how to work.
(a) Random Access Memory (RAM)
(b) Read Only Memory (ROM)
(c) Flash Card
(d) Universal Serial Bus (USB)

28. Auxiliary Memory is also called as
(a) Primitive memory (b) Primary memory
(c) Secondary memory (d) Sequential memory

29. A _____ is a device which converts AC voltage to pulsating DC voltage, using one or more p-n junction diodes.
(a) Transistor (b) Filter
(c) Regulator (d) Rectifier

30. In a half wave rectifier, the input is 300sin314t. Its average output voltage is
(a) 300 V (b) 200 V
(c) 100 V (d) 95.5 V

31. The contact between metal and heavily doped semiconductor is called
(a) Resistive contact (b) Permanent contact
(c) Ohmic contact (d) Diffused contact

32. PB =
(a) 1024 KB b) 1024 GB (c) 102 MB (d) 1024 TB

33. 1 nibble =
(a) 5 bits (b) 4 bits (c) 4 bytes (d) 8 bytes

34. _____ is not a full-fledged language and it needs to be embedded within a HTML document.
(a) C (b) C
(c) Assembly language (d) JavaScript

35. _____ is a computer program that manages all the other programs on your computer, stores files in an organized manner and co-ordinates the use of the computer hardware such as the keyboard and mouse.
(a) Utility software (b) Text editors
(c) Operating system (d) Compression utilities

36. The _____ frees one from having to interact directly with the hardware— other than clicking the mouse button or pressing keys on the keyboard— to complete tasks.
(a) Scan disk (b) Operating System (OS)
(c) Disk fragmentation (d) Encryption

37. JavaScript code in external files having extension as
(a) js (b) html (c) .xml (d) c

38. _____ is a data communication system consisting of several devices such as computers and printers.
(a) Wide Area Network (WAN)
(b) Metropolitan Area Network (MAN)
(c) Local Area Network (LAN)
(d) ampus Area Network (CAN)

39. A _____ is two or more LANs connected together, generally across a wide geographical area.
    (a) Local Area Network (LAN)
    (b) Wide Area Network (WAN)
    (c) Metropolitan Area Network (MAN)
    (d) ampus Area Network (CAN)

40. _____ refer to the constant values, which are used directly in JavaScript code.
    (a) Identifiers
    (b) Literals
    (c) omments
    (d) Variables

41. JavaScript supports three basic data types
    (a) Number, String, Arrays
    (b) Number, Boolean, Objects
    (c) Number, String, Boolean
    (d) rrays, Objects, String

42. _____ statements are the primary mechanism for telling a JavaScript interpreter to execute statements again and again until a specified condition is met.
    (a) Conditional (b) Loop
    (c) Branch (d) reak

43. collection of related Web pages is called a
    (a) HTTP (b) HTML
    (c) Web page (d) Web site

44. A _____ is a software application designed to find hypertext documents on the Web and then open the documents on the user's computer.
    (a) HTTP (b) Web browser
    (c) Website (d) Web page

45. The hypertext transfer protocol uses Internet addresses in a special format, called a
(a) Website
(b) Uniform Resource Locator (URL)
(c) Web page
(d) Web browser

46. The method to link html with style sheet is called _____ style sheet.
(a) In-line
(b) Internal
(c) External
(d) Relative

47. In Visual Basic for Applications (VBA), saving macros in the _____master template makes them available for use in other Word documents.
(a) Desktop.dotm
(b) Home Folder.dotm
(c) Normal.dotm
(d) OneDrive.dotm

48. Utility software falls under _____ software.
(a) Application (b) System
(c) General purpose (d) Customized

49. ou can create a variable by typing a declaration comprising the Visual Basic _____ keyword followed by a unique variable name of your choice.
(a) Var (b) Int
(c) im (d) Object

50. A _____ is a device that connects two Local Area Networks (LANs) or two segments of the same Local Area Network (LAN).
(a) Hub (b) Bridge
(c) Switch (d) Router

