

# Class X – Computer Applications

## Model Question Paper

(SET- 10)

**Time Allowed:** 3 Hours

**Maximum Marks:** 80

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### General Instructions:

1. All questions are compulsory.
  2. Internal choices are provided wherever applicable.
  3. Write HTML and Python programs with proper syntax and indentation.
  4. Draw diagrams wherever required.
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### Section A – Multiple Choice Questions (1 × 20 = 20 Marks)

1. Which tag is used to define the body section of an HTML document?
  - a) <head>
  - b) <title>
  - c) <body>
  - d) <html>
2. The full form of MAN is:
  - a) Main Area Network
  - b) Metropolitan Area Network
  - c) Multi Area Network
  - d) Medium Area Network
3. Which protocol is used for sending emails?
  - a) POP3
  - b) SMTP
  - c) FTP
  - d) HTTP
4. Which Python statement is used for conditional checking?
  - a) for

- b) if
  - c) loop
  - d) continue
5. <li> tag is used with:
- a) <table>
  - b) <ul> / <ol>
  - c) <form>
  - d) <img>
6. Which operator is used for exponentiation in Python?
- a) ^
  - b) \*\*
  - c) %
  - d) //
7. Which device connects a computer to the Internet?
- a) Scanner
  - b) Modem
  - c) Printer
  - d) Speaker
8. Which tag is used to insert image in HTML?
- a) <image>
  - b) <pic>
  - c) <img>
  - d) <photo>
9. Which Python data type stores whole numbers?
- a) float
  - b) int
  - c) str
  - d) bool
10. Which protocol is secure version of HTTP?
- a) FTP
  - b) HTTPS
  - c) SMTP
  - d) TCP
11. Which tag is used to create table heading?
- a) <tr>
  - b) <th>

- c) <td>
- d) <table>

12. Which function is used to take input from user in Python?

- a) print()
- b) input()
- c) show()
- d) read()

13. Which network connects computers worldwide?

- a) LAN
- b) MAN
- c) WAN
- d) PAN

14. Which operator gives remainder in Python?

- a) //
- b) /
- c) %
- d) \*\*

15. Which of the following is a type of malware?

- a) Virus
- b) Worm
- c) Trojan
- d) All of these

16. <br> tag is used to:

- a) Create paragraph
- b) Insert line break
- c) Create border
- d) Insert image

17. Which statement is used for repetition in Python?

- a) if
- b) for
- c) break
- d) pass

18. Cyber Ethics refers to:

- a) Hardware repair
- b) Moral principles of online behavior
- c) Programming
- d) Networking

19. A webpage is saved with extension:

- a) .exe
- b) .html
- c) .doc
- d) .ppt

20. The brain of computer is:

- a) RAM
- b) CPU
- c) Monitor
- d) Keyboard

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### **Section B – Very Short Answer Questions (2 × 6 = 12 Marks)**

1. Define Internet.
2. What is Web Hosting?
3. Define Boolean data type in Python with example.
4. What is the purpose of <title> tag?
5. Define Phishing.
6. What is E-Governance?

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### **Section C – Short Answer Questions (3 × 8 = 24 Marks)**

1. Explain the structure of an HTML document with example.  
**OR**  
Explain features of Internet.
  2. Write HTML code to create an ordered list of five subjects.
  3. Explain arithmetic and relational operators in Python with examples.
  4. Write a Python program to calculate Simple Interest.
  5. Differentiate between LAN, MAN and WAN.
  6. Explain types of Malware with examples.
  7. Write any three rules of Cyber Safety.
  8. Explain decision-making statements in Python with suitable example.
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## **Section D – Long Answer Questions (5 × 4 = 20 Marks)**

1. Write a Python program to check whether a number is even or odd and explain the program.
  2. Write HTML code to create a webpage that includes:
    - Heading “Republic Day Celebration”
    - One paragraph
    - One image
    - One hyperlink
  3. Explain different types of Cyber Crimes in detail with examples.
  4. Explain loops in Python (for and while) with suitable examples.
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## **Section E – Case Study Based Questions (2 × 2 = 4 Marks)**

### **Case Study 1:**

A student created a webpage using HTML and uploaded it using a web hosting service.

- a) Which tag is used to create hyperlink?
  - b) What is the purpose of HTTPS?
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### **Case Study 2:**

A Python program takes user input and calculates total marks using arithmetic operators.

- a) Which function is used to take input?
  - b) Name one arithmetic operator used for multiplication.
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