

# Class X – Computer Applications

## Model Question Paper

(SET- 7)

**Time Allowed:** 3 Hours

**Maximum Marks:** 80

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### General Instructions:

1. All questions are compulsory.
  2. Internal choices are provided in some questions.
  3. Use proper syntax while writing HTML and Python programs.
  4. Draw diagrams wherever required.
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### Section A – Multiple Choice Questions (1 × 20 = 20 Marks)

1. Which HTML tag is used to create the smallest heading?
  - a) <h1>
  - b) <h6>
  - c) <head>
  - d) <title>
2. The full form of HTTP is:
  - a) Hyper Text Transfer Protocol
  - b) High Text Transfer Program
  - c) Hyper Transfer Text Process
  - d) Hyper Tool Transfer Protocol
3. Which device connects computers in a LAN?
  - a) Router
  - b) Switch
  - c) Modem
  - d) Printer
4. Which Python function is used to convert float to integer?
  - a) float()

- b) str()
  - c) int()
  - d) bool()
5. <a> tag is used to create:
- a) Image
  - b) Paragraph
  - c) Hyperlink
  - d) Table
6. Which operator is used for logical AND in Python?
- a) &&
  - b) and
  - c) &
  - d) ||
7. Which of the following is a type of malware?
- a) Trojan
  - b) Keyboard
  - c) Monitor
  - d) Speaker
8. WAN covers:
- a) Single building
  - b) City
  - c) Large geographical area
  - d) Classroom
9. <tr> tag is used to create:
- a) Table row
  - b) Table data
  - c) Table heading
  - d) Table border
10. Which statement is used for multiple conditions?
- a) if
  - b) else
  - c) elif
  - d) break
11. Which of the following is a web browser?
- a) Google Chrome
  - b) MS Excel

- c) Paint
- d) Notepad

12. The symbol used for comments in Python is:

- a) //
- b) #
- c) <!--
- d) \*\*

13. Which tag is used to create a numbered list?

- a) <ul>
- b) <ol>
- c) <li>
- d) <list>

14. Which of the following is an example of cyber crime?

- a) Phishing
- b) Printing
- c) Typing
- d) Scanning

15. The function used to take user input in Python is:

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

16. Which operator is used to check equality?

- a) =
- b) ==
- c) !=
- d) >

17. HTTPS provides security through:

- a) Firewall
- b) Encryption
- c) Scanner
- d) Cable

18. Which network type connects computers within a city?

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

19. <img> tag is used to insert:

- a) Table
- b) Image
- c) Text
- d) Link

20. The brain of computer is:

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

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

1. Define World Wide Web (WWW).
2. What is a Firewall?
3. Define Boolean data type in Python.
4. What is the use of <hr> tag?
5. Define Cyber Ethics.
6. What is E-Commerce?

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

1. Explain the structure of an HTML document with diagram.

**OR**

Explain services provided by Internet.

2. Write HTML code to create a table showing Roll No and Name of three students.
  3. Explain logical operators in Python with examples.
  4. Write a Python program to calculate simple interest.
  5. Differentiate between HTTP and FTP.
  6. Explain different types of Networks (LAN, MAN, WAN).
  7. Write any three Cyber Safety measures.
  8. Explain decision-making statements in Python with 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 positive, negative or zero.  
Explain the program.
  2. Write HTML code to create a webpage that contains:
    - Heading “Science Exhibition”
    - One paragraph
    - One image
    - One unordered list
  3. Explain different types of Malware (Virus, Worm, Trojan) in detail.
  4. Explain loops in Python (for loop and while loop) with suitable examples.
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## **Section E – Case Study Based Questions (2 × 2 = 4 Marks)**

### **Case Study 1:**

A student designed a webpage using HTML and uploaded it to a server using web hosting service.

- a) Which tag is used to create hyperlink?
  - b) Define Web Hosting.
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### **Case Study 2:**

A shopkeeper wrote a Python program to calculate discount using if-elif-else.

- a) What is the purpose of elif statement?
  - b) Name one arithmetic operator used in Python.
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