

# Class X – Computer Applications

## Model Question Paper

(SET-5)

**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. Write HTML tags and Python programs with proper syntax.
  4. Draw diagrams wherever required.
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### Section A – Multiple Choice Questions (1 × 20 = 20 Marks)

1. Which tag is used to create a hyperlink in HTML?
  - a) <link>
  - b) <a>
  - c) <href>
  - d) <url>
2. The full form of SMTP is:
  - a) Simple Mail Transfer Protocol
  - b) Secure Mail Transfer Process
  - c) Simple Message Transfer Protocol
  - d) System Mail Transfer Program
3. Which of the following is an input device?
  - a) Monitor
  - b) Printer
  - c) Keyboard
  - d) Speaker
4. Which Python statement is used for looping?
  - a) if

- b) for
  - c) break
  - d) pass
5. <li> tag is used inside:
- a) <table>
  - b) <list>
  - c) <ul> or <ol>
  - d) <form>
6. Which protocol is secure version of HTTP?
- a) FTP
  - b) SMTP
  - c) HTTPS
  - d) POP3
7. A Trojan is a type of:
- a) Hardware
  - b) Malware
  - c) Network
  - d) Software update
8. Which data type is used to store decimal numbers?
- a) int
  - b) str
  - c) float
  - d) bool
9. Which operator is used to compare two values?
- a) +
  - b) ==
  - c) \*
  - d) /
10. <title> tag is written inside:
- a) <body>
  - b) <head>
  - c) <html>
  - d) <table>
11. Which network connects computers within a building?
- a) WAN
  - b) MAN

- c) LAN
- d) PAN

12. The brain of computer is:

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

13. Which symbol is used for comments in Python?

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

14. Which tag is used to create a form in HTML?

- a) <input>
- b) <form>
- c) <data>
- d) <submit>

15. Which of the following is a cyber crime?

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

16. The function used to take input in Python is:

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

17. Which operator gives remainder?

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

18. Which HTML tag is used to insert horizontal line?

- a) <line>
- b) <hr>
- c) <br>
- d) <hline>

19. Cyber safety helps to:
- a) Increase hacking
  - b) Protect personal data
  - c) Slow computer
  - d) Delete system files
20. A webpage is saved with extension:
- a) .doc
  - b) .html
  - c) .exe
  - d) .ppt
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### **Section B – Very Short Answer Questions (2 × 6 = 12 Marks)**

1. Define Cloud Computing.
  2. What is a Web Browser? Give two examples.
  3. What is indentation in Python?
  4. Define Malware.
  5. What is the use of <img> tag?
  6. Define URL.
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### **Section C – Short Answer Questions (3 × 8 = 24 Marks)**

1. Explain the structure of an HTML document.  
**OR**  
Explain features of Internet.
  2. Write HTML code to create a table with two columns: Name and Class.
  3. Explain arithmetic and relational operators in Python.
  4. Write a Python program to calculate the sum of two numbers.
  5. Differentiate between HTTP and HTTPS.
  6. Explain types of Networks (LAN, MAN, WAN).
  7. Write any three advantages and three disadvantages of Internet.
  8. Explain Cyber Ethics and Netiquette.
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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 contains:
    - Heading “Sports Day”
    - One paragraph
    - One image
    - One ordered list
  3. Explain different types of Malware (Virus, Worm, Trojan) in detail.
  4. Explain decision-making statements in Python with examples.
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## Section E – Case Study Based Questions (2 × 2 = 4 Marks)

### Case Study 1:

A student created a webpage using <h1>, <p>, <img> and <a> tags and uploaded it to a server.

- a) Which tag is used to create hyperlink?
  - b) What is Web Server?
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### Case Study 2:

A shopkeeper developed a Python billing system which takes user input and calculates total bill.

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