

# UPES Online

## Online BCA Program - Sample Question Paper

### Instructions:

1. This is a sample question paper for the Online BCA program.
2. Answer all questions.
3. Each question carries marks as indicated.
4. Time allowed: 3 hours
5. Maximum marks: 100

### Section A: Multiple Choice Questions (1 mark each)

1. What is the primary purpose of an operating system?

- a) Manage hardware
- b) Store data
- c) Compile programs
- d) Design software

2. Which of the following is a data structure?

- a) HTML
- b) CSS
- c) Linked List
- d) HTTP

3. What does SQL stand for?

- a) Structured Query Language
- b) Simple Query Language
- c) Standard Query Language
- d) Sequential Query Language

4. What is the function of DNS?

- a) Translate domain names to IP addresses
- b) Manage databases
- c) Control network traffic
- d) Store files

5. What is recursion?

- a) Function calling itself
- b) Looping
- c) Sorting algorithm
- d) Data structure

6. Which tag is used to add a hyperlink in HTML?

- a) <a>
- b) <link>
- c) <href>
- d) <url>

7. What does RAM stand for?

- a) Read Access Memory
- b) Random Access Memory
- c) Run Access Memory
- d) Real-time Access Memory

8. Which of these is NOT a programming language?

- a) Java
- b) Python
- c) HTML
- d) Windows

9. What is the default port for HTTP?

- a) 80
- b) 21
- c) 443
- d) 25

10. What is a constructor in object-oriented programming?

- a) Initializes objects
- b) Destroys objects
- c) Inherits properties
- d) None

### **Section B: Short Answer Questions (5 marks each)**

11. Explain the difference between stack and queue.

12. What is a database transaction?

13. Describe the client-server architecture.

14. What are the types of networks?

15. Define normalization in databases.

### **Section C: Long Answer Questions (10 marks each)**

16. Discuss the different phases of the software development life cycle.

17. Explain cloud computing and its benefits.