

**GLA University 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 full form of GUI?
  - a) Graphical User Interface
  - b) General User Interface
  - c) Global User Interface
  - d) Graph User Interface
2. Which data structure is based on FIFO?
  - a) Stack
  - b) Queue
  - c) Linked List
  - d) Tree
3. What does HTTP stand for?
  - a) Hypertext Transfer Protocol
  - b) Hyperlink Transfer Protocol
  - c) Hypertext Transmission Protocol
  - d) None

4. What is the use of a compiler?

- a) Translate code to machine language
- b) Debug code
- c) Run code
- d) Store code

5. Which tag is used to insert an image in HTML?

- a) <img>
- b) <image>
- c) <src>
- d) <pic>

6. What is a pointer in programming?

- a) Variable storing memory address
- b) Function
- c) Data type
- d) None

7. What is the default port number for HTTPS?

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

8. Which language is used for Android app development?

- a) Java
- b) Python
- c) C++
- d) Swift

9. What is polymorphism in OOP?

- a) Many forms
- b) Single form
- c) Inheritance
- d) Encapsulation

10. What is recursion?

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

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

11. Explain the concept of encapsulation with examples.

12. Describe the client-server architecture.

13. What is normalization in databases?

14. Explain different types of loops in programming.

15. Define inheritance in object-oriented programming.

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

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

17. Explain the role of an operating system.