

S. S. Jain Subodh P.G. College, Jaipur (Autonomous)

B.Sc.- I Semester

Subject: Basic Concepts of Programming (Using “C”)

Paper Code: BSCS101

Assignment, Oct 2025

Note- Assignment consists of 8 questions. Students are required to attempt any 4 Questions.

Unit I

1. What do you understand by Flowchart? Explain the various symbols used in Flowchart.
2. What is programming language and its uses? Write the programming domains.

Unit II

3. Explain all the decision making statements with example.
4. What do you understand by looping? Explain its type with example.

Unit III

5. What is String? Explain any ten String library functions.
6. What do you mean by Arrays? Explain all its type with syntax.

Unit IV

7. Differentiate between structure and unions with suitable examples
8. What is pointer? Explain it with examples.

S. S. Jain Subodh P.G. College, Jaipur(Autonomous)

B.Sc.- III Semester

Paper Code: BSCS301

Subject: JAVA Programming

Assignment 2025

Note- Attempt four questions, one question from each unit. Write answer in at least 500 words with good presentation. Each question carries equal marks.

Max. Marks- 10

UNIT-I

Q1. What do you understand by OOP? Describe its features and explain the concept of Class and Object through example.

Q2. Explain about the conditional and Iterative statements with syntax.

UNIT-II

Q3. Describe the concept and uses of Inheritance. Explain the types of Inheritance with examples.

Q4. What do you mean by Method overloading? Explain it with example.

UNIT-III

Q5. Explain about creation and uses of Package through examples.

Q6. What is the purpose of Exception handling? Explain Exception handling with example.

UNIT-IV

Q7. Distinguish between Multi-Threading and Multitasking. Explain the life cycle of thread through diagram.

Q8. Explain the JDBC architecture and describe about the types of driver.

S. S. Jain Subodh P.G. College, Jaipur (Autonomous)
B.Sc. - III Semester
Subject: Data and Computer Networks
Paper Code: BSCS 302

Assignment 2025

Note- Attempt four questions, one question from each unit. Write answer in at least 500 words with good presentation. Each question carries equal marks.

Max. Marks- 10

UNIT – I

1. What do you mean by computer networking? Explain its various characteristics.
2. Describe various network topologies (Bus, Star, Ring, Tree, Mesh, and Hybrid).

UNIT – II

3. Describe guided & unguided transmission Media in detail.
4. Describe error detection method in data link layer.

UNIT – III

5. Explain following Computer Network Devices.
(a) Hub (b) Switch (c) Repeater
(d) Router (e) Bridge (f) router
6. Describe routing algorithm present in network layer.

UNIT – IV

7. What is TCP/IP model? Compare it with OSI model.
8. Explain following protocols. FTP, HTTP, DHCP, POP3, Telnet and SMTP.

S. S. Jain Subodh P.G. College, Jaipur(Autonomous)
B.Sc.- V Semester
Paper Code: BSCS501

Subject: PHP Programming
Assignment 2025

Note- Attempt four questions, one question from each unit. Write answer in at least 500 words with good presentation. Each question carries equal marks.

Max. Marks- 10

UNIT-I

- Q1. What do you mean by control statement? Explain it with syntax.
- Q2. Define Operator. Explain its types with examples.

UNIT-II

- Q3. Why do we use array? Explain its types with examples.
- Q4. Write the uses of function and explain its types with examples.

UNIT-III

- Q5. What are Cookies and Session? Explain it with examples.
- Q6. What is the purpose of Exception handling? Explain Exception handling with example.

UNIT-IV

- Q7. Describe File Handling? Perform write and read operations through example.
- Q8. Through an example explain the database handling in PHP.

S. S. Jain Subodh P.G. College, Jaipur(Autonomous)

B.Sc. - V Semester

Subject: Artificial Intelligence

Paper Code: BSCS 502

Assignment 2025

Note- Attempt four questions, one question from each unit. Write answer in at least 500 words with good presentation. Each question carries equal marks.

Max. Marks- 10

UNIT – I

1. What are Search techniques? Explain water jug problem in detail.
2. Describe tower of Hanoi problem with diagram.

UNIT – II

3. What is problem in artificial intelligence? Explain various Characteristics of problem.
4. Explain depth first and breadth first search method in detail.

UNIT – III

5. What do you mean by heuristic search method? Explain hill climbing method in detail.
6. Explain AND OR search method in detail.

UNIT – IV

7. Explain concept of knowledge.
8. Describe propositional and predicate calculus.