Online MID Semester Examination, ODD NOV 2021-22

Department of Computer Science and Engineering

Subject: Principle of Programming Language

Course Code: CSL 1505

Time: 1HR _____ Marks: 15

- Answer all the questions

1. a) What is sequence control? Explain about implicit and explicit sequence control?   [2M]

    b) What do you understand by co-routines? How do we achieve control transfer between co-routines? [2M]

2. Explain about Lambda Calculus? [3M]

3. Explain about RAD Model? [4M]

4. Explain about storage management techniques? [4M]

National Institute of Technology Mizoram
Mid – Semester Examination, Odd Semester (2022-23)
PRINCIPLES OF PROGRAMMING LANGUAGE (CSL 1505)

5th Semester   **Full Marks: 30 marks**   **Duration: 1:30 hours**

Answer all 3 (Three) Questions. All Questions Carry Same Marks
(3 * 10 = 30 Marks)

1. a) What is the difference between programmer and system-controlled memory

    management?   [2m]

    b) Explain about RAD model?   [8m]

OR

a) What are the characteristics of programming language?   [3m]

b) Define Subprogram and characteristics of subprogram?   [3m]

c) Explain about Programming Language Processors?   [4m]

2. a) Explain about Storage Management techniques?   [5m]

    b) Explain about Agile Model?   [5m]

OR

a) Explain about Binding and Binding time?   [2m]

b) Explain about types of programming Methodologies?   [5m]

c) Explain about Co-routines?   [3m]

3. a) Explain about storage management phases?   [3m]

    b) What is sequence control? Explain about implicit and explicit   [7m]

    sequence control?

OR

a) What are the factors influencing the evolution of programming language?   [5m]

b) What are the Desirable features and design issues of programming language? [5m]

Answer all 5 (five) Questions. All Questions Carry Same Marks
(5 * 10 = 50 Marks)

1. a) What is the difference between functional programming and object-oriented programming? **[5m]**

    b) Explain about Storage management techniques? **[5m]**

2. a) Explain about the basic functional programming terminology & concepts? **[5m]**

    b) Explain about Waterfall Model along with advantages and disadvantages **[5m]**

3. a) What are the characteristics of functional programming? **[2m]**

    b) Explain about Lambda Calculus? **[8m]**

4. a) Explain about elementary data type? **[5m]**

    b) Explain about prototype Model along with advantages and disadvantages? **[5m]**

5. a) Explain about stages in language translation with example? **[5m]**

    b) Explain about pure and impure functions? **[2m]**

    c) Explain about Encapsulation, data abstraction, information hiding? **[3m]**