Roll No. | | | | | | | | | | | | | **Total No. of Pages : 02**

Total No. of Questions : 08

BCA (Sem.–4)

SOFTWARE ENGINEERING

Subject Code : UGCA-1921

M.Code : 79725

Date of Examination : 16-06-21

Time : 2 Hrs. **Max. Marks : 60**

INSTRUCTIONS TO CANDIDATES :

1. **Attempt any FIVE question(s), each question carries 12 marks.**

1. What is Software Engineering and its need? Discuss various prescriptive process models along with their advantages and disadvantages.

2. Explain in detail about Unified Process.

3. What do you mean by Cost Estimation? Discuss any cost estimation model for project development giving its advantages and disadvantages.

4. Write a detailed note on following :

   a) Decision tree

   b) Decision table

   c) Formal Requirements Specification

5. a) Describe the concepts of cohesion and coupling. State the difference between cohesion and coupling with a suitable example.

   b) Write a detailed note on structure charts.

6. a) What is meant by software design? How software design is different from coding?

   b) Write the characteristics of a good software design. What causes increased productivity when object oriented paradigm is used?

7. What is Software testing? What are the main objectives of software testing? What are its limitations? Also discuss the characteristics of a good software testing.

8. Define Software metrics. Why do we really need metrics in software? Explain in detail about metrics for testing and metrics for maintenance.

Note: Any student found attempting answer sheet from any other person(s), using incriminating material or involved in any wrong activity reported by evaluator shall be treated under UMC provisions.

Student found sharing the question paper(s)/answer sheet on digital media or with any other person or any organization/institution shall also be treated under UMC.

Any student found making any change/addition/modification in contents of scanned copy of answer sheet and original answer sheet, shall be covered under UMC provisions.