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Total No. of Pages : 02

Total No. of Questions : 07

DEP/BCA (Sem.-4)
SOFTWARE ENGINEERING
Subject Code : BSBC-401
M.Code : 10066
Date of Examination : 13-12-22

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY** consisting of TEN questions carrying TWO marks each.
2. **SECTION-B contains SIX questions** carrying TEN marks each and students has to attempt any FOUR questions.

SECTION-A

1. **Answer briefly :** (10 × 2 = 20)

- a) Write at least two advantages of waterfall model.
- b) Explain the need of Software project management.
- c) Explain the term Problem Based estimation.
- d) Explain in brief about uses of cost estimation.
- e) Explain in brief about architecture design
- f) Differentiate between Verification and Validation in reference to testing Strategies.
- g) What do you mean by Integration Testing? Explain.
- h) Explain the term system testing in brief.
- i) Write at least two advantages of Reverse engineering.
- j) What do you understand by computer aided software engineering?

SECTION-B

2. Explain in detail the concept of spiral model. Also write advantages and disadvantages of Spiral Model. (10)
3.
 - a) Write a detailed note on role of Metrics and Measurements. (5)
 - b) Explain in detail about Fourth Generation Techniques. (5)
4. Explain the following terms in detail :
 - a) DFD
 - b) Entity Relationship Diagram (5+5=10)
5. Write a detailed note on following Design Methodologies :
 - a) Data Design
 - b) Procedural Design (4+6=10)
6. Define software testing. Explain White Box and Black Box testing in detail. (10)
7. Write a detailed note on following in reference to Reengineering (5 + 5 = 10)
 - a) Forward Engineering
 - b) Restructuring

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.