Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐   Total No. of Pages : 02

Total No. of Questions : 09

B.Voc. (Software Development) (Sem.–3)
SOFTWARE ENGINEERING
Subject Code : 6.GV.02
M.Code : 78777
Date of Examination : 14-12-22

Time : 3 Hrs.   Max. Marks : 30

INSTRUCTIONS TO CANDIDATES :
1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**

SECTION-A

1. **Write briefly :**

    a) What is requirement engineering?

    b) What is the design process?

    c) Distinguish between top-down and bottom-down programming practices.

    d) What are the characteristics of software?

    e) Differentiate Error, Fault and Failure.

    f) What do you mean by re-engineering? Explain.

    g) What is the output of the system analysis phase?

    h) What do you mean by object-oriented software engineering?

    i) What is the software maintenance?

    j) What is the need of metric in software?

SECTION-B

2. Which software process model covers the risk factors of using new technologies? Explain it in detail.

3. What are the Project estimation and decomposition techniques used in project planning? Explain.

4. Explain the concept of effective modular design in detail. What is the effect of coupling and cohesion on the modular design?

5. What do you understand by software testing? Write any four testing principles.

6. What is software reuse? What are its advantages? Explain building and retrieving of the reuse components.

SECTION-C

7. What do you understand by the term life-cycle model of the software development? What problems might a software development organization may face if it does not follow any life cycle models during the development of a large project?

8. Discuss the taxonomy of the CASE tools in detail.

9. What are the various software testing strategies? Explain them in detail.

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.