

Roll No.

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Total No. of Pages : 02

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B.Voc. (Hardware and Networking) (Sem.-4)

SOFTWARE ENGINEERING

Subject Code : BVHN-402-18

M.Code : 77481

Date of Examination : 17-12-22

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 **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 meant by Software engineering Paradigm?
- b) What is the role of metrics and measurement?
- c) What is the design process?
- d) What are the symbols used in DFD?
- e) What is the importance of validation?
- f) What is COCOMO model?
- g) Write the reasons for the failure of the spiral model.
- h) Which software model leads to software reuse? Why?
- i) What is meant by software prototyping?
- j) What do you mean by test case management?

SECTION-B

2. What are the fourth generation techniques? What are their advantages ? Are there any demerits involved? Explain.
3. What is structured programming? What are the constructs in structured programming? What are the advantages of structured Programming? How can you make an unstructured Program structured? Explain with the help of an illustrative example.
4. What are the purposes of Data Flow diagrams, Entity-Relationship diagrams? Give an example diagram of each.
5. Explain the concepts of reverse and forward engineering.
6. If some existing modules are to be reused in building a new system, will you use a top down approach or bottom up approach? Why?

SECTION-C

7. What do you understand by software project management? What are the various activities in the project management? Explain in detail.
8. Discuss the differences between black box and white box testing models. Discuss how these testing models may be used together to test a program schedule?
9. What do you test for? Discuss the various types of tests that are applied.

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.