U-5182

M. C. A. (Sem. II) Examination, 2021

PAPER : MCA-205

SOFTWARE ENGINEERING

Time Allowed : **Three Hours**

Maximum Marks : **70**

Min. Marks : **28**

Note : *This question paper contains three sections as under :*

Max. Marks-10

...marks with 01 compulsory question ... short answer type questions ... words answer) taking two questions ... each unit. Each question shall be one mark.

Max. Marks-25

tion-B

carry 10 questions, 02 questions from each (answer about in 250 words). Students are ructed to attempt five questions by selecting question from each unit. Each question shall of five marks.

Max. Marks-35

tion-C

l carry 35 marks with five long answer type stions comprising one compulsory question estion no. 7) of 15 marks and four questions 10 marks each. Students are instructed to mpt total three questions with one compulsory stion (answer about in 500 words) and any more questions (answer about in 400 words) of remaining four questions.

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SECTION - A

1 (i) What is software maintenance ?

(ii) What is coupling ?

(iii) Define CASE tools.

(iv) Define design process.

(v) What is real time system ?

(vi) What is black box testing ?

(vii) What is full form of COCOMO ?

(viii) What is the purpose of timeline chart ?

(ix) Give the procedure of Delphi method ?

(x) Define metrics.

SECTION - B

UNIT - I

2 How does engineering differ from software engineering ? Also write brief notes on computer based system and system engineering hierarchy.

OR

Explain in detail Evolutionary process model.

UNIT - II

3 Explain the structure of software requirements document ?

OR

What are the feasibility studies for requirement engineering process ?

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UNIT - III

4 Explain about the cardinality and modality with suitable examples.

OR

What is software development life cycle ? Explain.

UNIT - IV

5 What is software testing ? Explain clearly the system testing.

OR

What is meant by software quality. Explain the metrics of maintenance.

UNIT - V

6 Explain water fall model. What are the problems that are sometimes encountered when the water fall applied ?

OR

Differentiate functional and non functional requirements and explain.

SECTION - C

7 (a) Explain the limitations of LOC over FP as defined by IFPUG.

(b) Discuss the contribution of COCOMO-I and II in estimation process.

8 Explain Integration and acceptance testing in detail. Give one example of each testing.

9 Define the terms Web Engineering, Reverse Engineering and Re-engineering.

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10 What are the issues of Procedural design ? Compare them with Architectural design.

11 What is probability matrix ? How is it useful in risk management ?

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