## C20-CM-503/CAI-502

## 7637

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### **BOARD DIPLOMA EXAMINATION, (C-20)**

#### MAY/JUNE-2023

#### **DCME - FIFTH SEMESTER EXAMINATION**

#### SOFTWARE ENGINEERING

Time : 3 Hours ]		[ Total Marks : 80
	PART—A	3×10=30
<b>Instructions :</b> (1) Answer <b>all</b> questions.		
	(2) Each question carries <b>three</b> marks.	
	(3) Answers should be brief and straight to the po not exceed five simple sentences.	int and shall
1.	Define the term high level language programming. examples.	. Give two 1+1+1
2.	Write the job responsibilities of a software project manager.	1+1+1
3.	State the three metrics for project size estimation.	1+1+1
4.	List any three characteristics of a good SRS document.	1+1+1
5.	Define cohesion and coupling.	11/2+11/2
6.	List the three characteristics of a good user interface.	1+1+1
7.	State the role of UML in object oriented design.	3
8.	Differentiate the terms verification and validation.	1+1+1
9.	Write about three designs of test cases.	1+1+1
10.	State the three debugging guidelines.	1+1+1
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**Instructions :** (1) Answer **all** questions. (2) Each question carries **eight** marks. (3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer. 11. (a) Compare any two software life cycle models. 4 + 4(**OR**) Explain spiral model in detail. 8 (b) Explain different works of staffing level estimations. 8 12. (a) (**OR**) Explain risk management in detail. 8 (b) 13. Explain software requirement specifications (SRS) in detail. 8 (a) (OR) 8 (b) Explain about organization of the SRS document. 14. (a) Explain the different approaches of software design. 8 (OR) Explain the steps to draw the use-case diagram. 8 (b) 15. Explain about black box testing and white box testing. 4+4 (a) (OR) (b) Explain software quality management system in detail. 8 /7637 2 [ Contd...

PART-B

8×5=40

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**Instructions :** (1) Answer the following question.

- (2) The question carries **ten** marks.
- (3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.
- **16.** Design SRS document by assuming that you had a task for implementing ATM operations. The operations to be included are listed below :
  - (a) Language selection
  - (b) Account maintenance
    - (i) Account type
    - (ii) Withdrawal/deposit
    - (iii) Amount
    - (iv) Denominations
    - (v) Money deposition
    - (vi) Balance transfer

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