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**C16-CM-403**

**6432**

**BOARD DIPLOMA EXAMINATION, (C-16)**

**MAY/JUNE—2023**

**DCME - FOURTH SEMESTER EXAMINATION**

**SOFTWARE ENGINEERING**

*Time : 3 Hours ]*

*[ Total Marks : 80*

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**PART—A**

*3×10=30*

- Instructions :** (1) Answer **all** questions.  
(2) Each question carries **three** marks.  
(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. Mention any three differences between program and software products.
2. Mention the need of software project planning.
3. What is staffing?
4. Define risk management.
- \* 5. List any three examples of bad SRS document.
6. List the contents of the SRS document.
7. Define coupling.
8. What is unit testing?
9. What is the purpose of debugging?
10. What is software quality?

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*[ Contd...*

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## PART—B

10×5=50

- Instructions :** (1) Answer *any five* questions.  
(2) Each question carries **ten** marks.  
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. Write in detail about requirement analysis and specifications.
12. Explain PERT chart with a neat sketch.
13. Explain Putnam's work for staffing level estimation.
14. Explain functional requirements with an example.
15. (a) Differentiate between verification and validation.  
(b) Explain performance testing.
16. Write the differences between graphical user interface and text based interface.
17. List and explain open source testing tools.
18. List and explain about reliability metrics.

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