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4625

BOARD DIPLOMA EXAMINATION, (C-14)

JUNE-2019

DCME - FIFTH SEMESTER EXAMINATION

SOFTWARE ENGINEERING

Time: 3 hours

Max. Marks:80

PART - A

10x3=30M

Instructions: 1) Answer **all** the questions Each question carries **Three** marks

2) Answer should be brief and straight to the point and shall not exceed five simple sentences.

- 1) What is the evolution of art to Software Engineering discipline?.
- 2) List any three essential activities in project planning.
- 3) Write short note single variable heuristic estimation model.
- 4) What is risk? List the main categories of risks.
- 5) What are the contents of SRS document?
- 6) List any three Requirement activities.
- 7) List any three desirable characteristics of a good software design.
- 8) Define coupling and List any two types of coupling.
- 9) What is testing?
- 10) Write any three differences between hardware and software reliabilities.

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PART - B

10x5=50M

Intstructions: 1) Answer any five questions Each question carries Ten marks
2) Answer should be comprehensive and the criterion for valuation is the content but not length of the Answers.

- 11) a) Explain Control Flow-Based Design with an example.
b) Explain Prototyping Model with appropriate Flowchart.
- 12) a) Discuss about any popular empirical estimation techniques.
b) Explain the Work break down structure of scheduling.
- 13) a) List any four attributes that a good software engineer should possess.
b) Explain the function point metric used for Project size estimation.
- 14) a) Explain any four categories of users of the SRS document
b) Explain any two problems that may arise in Bad SRS document.
- 15) a) Explain why Functional independence is a key for good design.
b) Write any four comparisons of characteristics of GUI and Text-based user interfaces?
- 16) a) Discuss about Function-oriented Design approach.
b) Explain any two debugging approaches.
- 17) a) Discuss about representative Coding standards.
b) Explain how to conduct Unit testing with help of driver and stubmodules.
- 18) a) Explain how to define the operation profile for a product in statistical testing?
b) Discuss about the evolution of Quality System in Software product development.

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