(6 pages) Reg. No. :	 A ——— software is developed by a group of software developers working together in a team.
	(a) Professional
	(b) Application
B.Sc. (CBCS) DEGREE EXAMINATION, NOVEMBER 2018.	(c) System
	(d) Programming
Fifth Semester	3. The primary objective of requirement gathering task is to the requirements from the
Computer Science - Main	(a) Stakeholders (b) Users
SOFTWARE ENGINEERING AND TESTING	(c) System (d) Employers
(For those who joined in July 2016 and afterwards).	4. Skills to successful project management
Time: Three hours Maximum: 75 marks	(a) Knowledge of project management techniques
PART A — $(10 \times 1 = 10 \text{ marks})$	(b) Decision taking capabilities
Answer ALL questions.	(c) Previous experience in similar projects
Choose the correct answer.	(d) All the above
Expand RAD (a) Rapid Application Development (b) Random Application Development (c) Rouse Application Development (d) None of the above	 A design solution should be and layered to be understandable.
	(a) Modular
	(b) Sequential
	(c) Random
	(d) None of the above
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Expand UML. Unified Modelling Language United Modelling Language Unified Method Language United Method Language It causes further menu items to be displayed adjacent to it in a sub-menu. Walking menu Scrolling menu Hierarchical menu (d) None of the above In this approach, once a failure is observed, the 8. symptoms of the failure are noted. Brute force method Back tracking Cause elimination method None of the above The software components fail due to 9. bugs wear and tear

dependability

none of the above

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(a) characteristics (b) performance
 (c) process (d) none of the above
 PART B — (5 × 5 = 25 marks)
 Answer ALL questions, choosing either (a) or (b).
 Each answer should not exceed 250 words.
 11. (a) Describe the emergence of Software Engineering.

Product metrics help measure the -

a product being developed.

Or

- (b) Describe the prototyping model.
- 12. (a) What do you understand by requirements gathering? Explain its different techniques.

Or

- (b) Explain project estimation techniques.
- 13. (a) How to characterise a Good Software Design?

Or

(b) Describe UML diagrams.

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[P.T.O.]

14. (a) Explain Graphical user interface versus Text based user interface.

Or

- (b) Explain unit Testing.
- (a) Explain Software quality management system.

Or

(b) Explain shortcomings of ISO 9000 certification.

PART C — $(5 \times 8 = 40 \text{ marks})$

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Explain the various phases of classical waterfall model.

Or

- (b) Explain spiral model in detail.
- (a) Describe the responsibilities of a software project manager.

Or

(b) Explain risk management in detail.

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 (a) Explain developing the DFD model of a system with context diagram.

Or

- (b) Explain Activity diagram and state chart diagram.
- (a) Explain characteristics of a good user interface.

Or

- (b) Explain Black-box Testing with example.
- 20. (a) Explain software maintenance.

Or

(b) Describe CASE support in software life cycle.

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