

Dr. Babasaheb Ambedkar Open University
Term End Examination February – 2026

Course	: BCAR	Date	: 19-Feb-26
Subject Code	: BCAR-402	Time	: 03:00pm to 05:15pm
Subject Name	: Software Engineering	Duration	: 02.15 Hours
		Max. Marks	: 70

Section A

Answer the following (Attempt any three) (30)

1. Explain testing approaches in great details.
2. Write a short note on SDLC.
3. Discuss various levels of testing.
4. What do you mean by Qualitative Risk Analysis? Explain in details.
5. Describe all Requirement Initiation Techniques in details.

Section B

Answer the following (Attempt any four) (20)

1. How to monitor and control risk?
2. Explain software management activity in short.
3. List down various phases of waterfall model in details
4. Discuss various software design level in short.
5. Write a short note on Five levels of Capability Maturity Model (CMM)
6. Who are the participants of software configuration management?

Section C

Part – A (Multiple Choice Questions) (10)

- 1 When more than one module shares common data structure and work on different part of it, it is known as _____ coupling
A Global B Control
C Content D Stamp
- 2 _____ analyzes individual tasks by asserting a minimum amount of time for completion.
A CPM B Gantt Chart
C PERT D Decision Tree
- 3 _____ type of maintenance refers to changes and updates done in order to keep the software usable over long period of time.
A Corrective B Perfective
C Adaptive D Preventive
- 4 _____ Process is determining the duties and skill requirements of a job and the kind of person to fill it.
A Job analysis B Hiring
C Training D Writing job description

- 5 Size of software estimated by calculating _____.
 A KLOC (Kilo Line of Code) B Number of functions in the software
 C Either A or B D Output of code
- 6 In _____ Risk, if client fails to provide all the necessary equipment for the development and execution of the software this will cause the software to become a failure.
 A Customer B Development
 C Business impact D Process
- 7 In communication management, project manager uses _____ and create status and performance reports.
 A Feedback B Planning
 C Closure D Sharing
- 8 _____ testing is a testing technique that takes into account the internal mechanism of a system
 A White box B Structural
 C Glass box D All of them
- 9 _____ model also known as linear – sequential life cycle model
 A Iterative B Incremental
 C Prototype D Waterfall
- 10 To evaluate the ability of the system to perform its function repeatedly for a specified period of time is called _____ testing.
 A Scalability B Reliability
 C Load D Localization

Part – B (Do as Directed)

(10)

True / False

- 1 COCOMO models are shown by Barry Boehm in year 1981. True / False
- 2 Cohesion defines the level of inter-dependability among modules of software. True / False
- 3 Agile is a project management philosophy that utilizes a core set of values or principles. True / False
- 4 Walk-through is a procedure where developer describes product and look on the comments send from the end user. True / False
- 5 Evolutionary model is also called successive versions model or incremental model. True / False
- 6 Intangible benefits are benefits that can be measured in terms of money. True / False
- 7 CLI is a tool of interaction with the computer, where you have to provide the text-based command to the computer. True / False
- 8 Static testing is type of testing which requires only the source code of the product, not the binaries or executable. True / False
- 9 SWIFT stands for "Structured What-If Technique". True / False
- 10 Inspection is a kind of reviews or a strategy which is adopted during static testing phase of software. True / False
