09

THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA
Faculty of Science
BCA-V Semester MID-SEM EXAMINATION

26-08-2023   BCA1501   Time: 12:00 pm To 01:00 pm
Saturday   Software Engineering-II   Marks: 30

Q-1   **Do as Directed**   **[12]**

1. PERT stands for _____.

2. _____ must plan, motivate, organize and control the practitioners who do software work.

3. A semiformal way of breaking down the goal is called the _____.

4. **(True/False)** Agile methods seem to work best when team members have a relatively high skill level.

5. The activity that distributes estimated effort across the planned project duration by allocating the effort to specific software developing tasks is _____.
   a) Project scheduling
   b) Detailed schedule
   c) Macroscopic schedule
   d) None of the mentioned

6. Which of the following is an indirect measure of product?
   a) Quality
   b) Complexity
   c) Reliability
   d) All of the Mentioned

7. _____ is not a fundamental activity for software processes in software development.
   a) Evolution   c) Validation
   b) Design and implementation   d) Verification

8. Agile Software Development is based on which of the following type?
   a) Iterative Development
   b) Incremental Development
   c) Both Incremental and Iterative Development
   d) Linear Development

9. _____ is a discipline that focuses on the systematic and structured approach to developing, designing, testing, and maintaining software systems.
   a) Pair Programming
   b) Re-Engineering
   c) Software Engineering
   d) refactoring

10. What is Proactive risk management?

11. Define the term SCM.

12. What is Product backlog?

Q-2 Explain the following terms in brief.(Any 4)   [12]

1   What are the basic principles of Software Project Scheduling? Explain.
2   Write a note on types of Metrics.
3   Explain the effective Project Management Spectrum.
4   Explain the Process of Extreme Programming.
5   Explain COCOMO model.
6   Solve the Numerical:
    Consider a Software project using Embedded mode with 550 KLOC. Find out Effort
    Estimation, Development time and Person Estimation.(Values of constants:
    a=3.6,b=1.2,c=2.5,d=0.32)

Q-3   Write a note on RMMM.   [6]

<div align="center">OR</div>

Construct an Activity network for the given list of activities.
   a) What is the minimum time to complete the project?
   b) What is the critical path?

Activity	Immediate Predecessor(s)	Time (Days)
A	-	3
B	A	4
C	A	6
D	B	6
E	B	4
F	C	4
G	D	6
H	E,F	8