

T.Y.B.Sc IT Sem-V dt. 10/02/2025
CBS.

Time: (2½ Hours)

[Total Marks: 75]

- N. B.: (1) All questions are compulsory.
(2) Make suitable assumptions wherever necessary and state the assumptions made.
(3) Answers to the same question must be written together.
(4) Numbers to the right indicate marks.
(5) Draw neat labeled diagrams wherever necessary.
(6) Use of Non-programmable calculators is allowed.

Q1. Attempt any three of the following:

15 Marks

- Define Project Charter. Explain its benefits & components.
- What is Business Case? State its contents & explain its objectives.
- State & explain the different phases of Project Management Life Cycle.
- What is cost benefit evaluation & Return on investment?
- Define Risk. Explain Risk Management process in detail.
- Why is it essential to undertake the feasibility study? Explain its steps.

Q2. Attempt any three of the following:

15 Marks

- Describe the waterfall model in detail. State its advantages & disadvantages.
- Write a detailed note on the Structure of an Atern Project.
- What are different software effort estimation techniques?
- Discuss COCOMO II model with its different types & stages.
- Explain in detail about capers jones Estimating rules of thumb.
- Write a brief note on Agile and Scrum.

Q3. Attempt any three of the following:

15 Marks

- State the objective of activity planning in software development.
- Explain the Boehm's top 10 software risks and its counter measures.
- Describe the PERT Technique in detail.
- What is the nature or categories of a resources?
- Explain the following Terms:
 - Activity-On-Arrow Networks
 - Critical path
 - Free & Interfering float
- Describe the Framework for Dealing with Risk.

Q4. Attempt any three of the following:

15 Marks

- Explain Earned value analysis technique in detail.
- What is software configuration management? State its purpose and explain its terminologies.
- Explain Slip chart & Gantt chart with diagram. State the significance of each.
- Write about Time and materials contracts & fixed price contracts.
- Describe the different stages in contract placement.
- Explain the Maslow's Hierarchy of needs.