

( 3 Hours )

Total Marks : 100

- Note : : 1) All questions are compulsory.  
2) Make suitable assumptions wherever necessary and state the assumptions made.  
3) Numbers to the right indicate marks.

- Q. 1 Attempt **any two** of the following **10**
- a Write note on Pragmatic Software Cost Estimation
  - b Explain the principles of modern software management
  - c What is iteration? Explain the sequence of an individual iteration workflow.
  - d Explain the roles, artifacts and responsibilities of software architecture team.
- Q. 2 Attempt **any three** of the following **15**
- a What kind of strategies can be applied to improve team effectiveness?
  - b Explain the generations of Software Development.
  - c What are the strategies to make error free software?
  - d Present the Boehm's Top-10 software metrics list in detail.
  - e Explain how to reduce the Software product size.
  - f Explain the three generations of software development.
- Q. 3 Attempt **any three** of the following **15**
- a Explain the principles of conventional software management
  - b Explain any five Davi's principles of conventional software management.
  - c Briefly explain the management artifact sets.
  - d What is an artifact set? What are the different types of artifact sets?
  - e Explain the different stages in modern software development process?
  - f Write note on Aspects of architecture from the management perspective.
- Q. 4 Attempt **any three** of the following **15**
- a Explain two planning guidelines.
  - b Explain the evolution of Work breakdown structure
  - c Write short note on periodic status assessment
  - d Discuss the cost and schedule estimating process.
  - e Explain the significance of periodic status assessment.
  - f What is a workflow? List and explain the software process workflows.
- Q. 5 Attempt **any three** of the following **15**
- a Write a note on Process automation
  - b Write note on Software Change Orders (SCO).
  - c Explain the role of infrastructure in process automation
  - d Explain the environment disciplines of environment evolution.
  - e Write note on Round trip engineering
  - f Explain the features of Project Organizations.

- Q. 6 Attempt **any three** of the following 15
- a Describe the metrics for project control and process instrumentation.
  - b Write a note on Management Indicators
  - c List the basic characteristics of good metric.
  - d Give the comparison between small-scale and large-scale projects.
  - e Explain the process discriminators resulting from differences in project size.
  - f Explain the automation process with neat diagram.

- Q. 7 Attempt **any three** of the following 15
- a How the project profiles differ between a conventional approach and modern process?
  - b What is early risk resolution? Give its advantages.
  - c State the traits of modern process development
  - d Write a note on Modern Software economics
  - e Explain the general structure for cost estimation model for modern software process
  - f Enlist the various principles of modern project management.

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