O. P. Code: 08219

(Time: $2\frac{1}{2}$ hours)

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- N. B.: (1) All questions are compulsory.
 - (2) Makesuitable 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

1. Attempt <u>any two</u> of the following:

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- a. Explain how software product size can be reduced. Also discuss how it contributes to the improvement of software economics?
- b. What are the best practices to be followed for improving the overall quality of software?
- c. Explain five symptoms of a project that is headed for trouble.
- d. Explain the three generations of software economics.

2. Attempt any two of the following:

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- a. What are the primary objectives during engineering stage of a modern software development process?
- b. Explain the top five principles of modern software management.
- c. What is an artifact? What are the two forms of requirements addressed in release specification?
- d. Explain the importance of software architecture. State the three different aspects of software architecture from management perspective.

3. Attempt any two of the following:

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- a. List the purpose of milestones in the project life cycle. State the three types of joint management review.
- b. Explain forward and backward-looking approach of cost and schedule estimating process.
- c. What is the significance of periodic status assessments? Explain the default content of status assessment reviews
- d. Explain the concept of workflow? Describe major workflows involved in software development.

4. Attempt any two of the following:

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- a. Why an independent team is used for software assessment? Explain the activities of software assessment team over the project life cycle.
- b. Explain the automation aids and tool components that support the process workflows.

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