

[Time:2.30 Hrs]

[ Marks:75 ]

Please check whether you have got the right question paper.

- N.B:
1. All question are compulsory.
  2. Figures to the right indicate full marks.
  3. Students answering in the regional language should refer in case of doubt to the main text of the paper in English.

Q.1 Attempt **any three** of the following:

15

- a. Define Business Case. Specify the content of business case document.
- b. Explain the different phases of project management life cycle.
- c. What is a project product? Explain Product Breakdown Structure with the help of example.
- d. What is Project Portfolio Management? Explain with an example.
- e. What do you mean by scope and objective of a project? List the activities involved in identifying project scope and objective?
- f. Define the following terms:
  - i) Net profit ii) Return on Investment iii) Payback period iv) Net present value v) Internal rate of return

Attempt **any three** of the following:

15

- a. Explain the five major components of Albrecht Function Point Analysis.
- b. Explain the problems generally faced during effort estimation.
- c. List the advantages and disadvantages of software prototyping.
- d. Explain the Capers Jones rules of thumb for software estimation.
- e. What are the eight core Atern principles?
- f. What do you understand by the term 'ceremonies' in a scrum project?  
Explain the different types of ceremonies that are observed in a Scrum project and their significance.

Q.3 Attempt **any three** of the following:

15

- a. What is activity? Explain the approaches to identify the activities.
- b. What is forward pass and backward pass to calculate activity duration in network diagram? Explain with an example.
- c. What is Risk and explain different ways to handle it.
- d. Explain Project Evaluation and Review Technique with example.
- e. What do you mean by Scheduling Resource? Explain the process of it.
- f. Define the following terms
  - i) Critical path ii) Float iii) Free float iv) Interfering float v) Hammock activity

Q.4 Attempt **any three** of the following:

15

- What is software configuration management? What are the different activities of it?
- What is change control process? Explain with an example.
- Explain fixed price contract? What are the advantages and disadvantages of it?
- What is Contract? Explain different contracts on the basis of payment to suppliers.
- What are the main sections required in a requirement document for contract placement.
- Explain general recruitment process.

Q.5 Attempt **any three** of the following:

15

- What are the advantages of a functional organization over project organization?
- What are the five basic stages of Team development? Explain the different types of people needed to form a balanced team.
- Explain Software Engineering Institute (SEI) capability maturity model.
- What are the main reasons for project closure?
- Explain the steps of conducting a post implementation project review.
- What is the importance of Software Quality? Explain with an example.

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