(2½ Hours)

, ~		\sim .	\sim	n 4	
FTEN.	GQ 1.4	DT-4	D_ Q1	ke.	751
- 4	M S	Y 176	g r	200	~~

T. T	D	/1 \	A 11	4.			
IN	к.	()	$\mathbf{A} \mathbf{H} \mathbf{C}$	questions	are	comnii	icorv
T 4.	D	(+/	<u> </u>	100001101115	ui C	compa	LOUL y

- (2) Make <u>suitable assumptions</u> wherever necessary and <u>state the assumptions</u> made.
- (3) Answers to the same question must be written together.
- (4) Numbers to the <u>right</u> indicate <u>marks</u>.
- (5) Draw <u>neat labeled diagrams</u> wherever <u>necessary</u>.
- (6) Use of **Non-programmable** calculators is **allowed**.

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

15

- a. Briefly explain the different phases of project management life cycle.
- b. What is project charter in software project management? What are the elements of project charter?
- c. What is project portfolio management? Explain the key aspects of project portfolio management.
- d. Define the following terms:
 - i)Net profit ii)Return on Investment iii)Payback period iv)Net present value v)Internal rate of return
- e. What is a project product? Explain Product Breakdown Structure with the help of example.
- f. What do you mean by scope and objective of a project? List the activities involved in identifying project scope and objective.

2. Attempt any three of the following:

15

- a. 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.
- b. List the advantages and disadvantages of software prototyping.
- c. Explain the five major components of Albrecht Function Point Analysis.
- d. What are effort multipliers in COCOMO II model? List the effort multipliers used at early design.
- e. Explain eight core principles of Dynamic Systems Development Method.
- f. State Capers Jones rules of thumb for software estimation.

3. Attempt <u>any three</u> of the following:

15

- a. With the help of example explain forward pass and backward pass to calculate activity duration in network diagram.
- b. Define the following terms
 - i)Critical path ii)Float iii)Free float iv)Interfering float v)Hammock activity
- c. Explain Boehm's top ten software project risks and the different strategies for reducing it
- d. Write short note on Project Evaluation and Review Technique.
- e. Explain the different categories of cost incurred in a software project.
- f. What is resource smoothing? Explain two different ways of prioritizing activities for resource allocation.

[TURN OVER]

57826 Page **1** of **2**

4.	Attempt <u>any three</u> of the following:	S		47.29	SY.	200	101
a	Explain review process model with the help of	of diagram.	\$ 50 00 K				2,2
b	What is meant by software configuration in	management?	Explain	the	two	principal	PS.
	activities of configuration management.	222		500			1 D V

- c Explain the main sections in a requirement document for contract placement.
- d What is fixed price contract? List the advantages and disadvantages of fixed price contract.
- e What are three important categories of stress management techniques?
- f Explain Vroom's expectancy theory of motivation.

5. Attempt <u>any three</u> of the following:

- a. Explain the advantages of a functional organization over project organization.
- b. List the obstacles to good group decision making. Also explain Delphi decision making process.

15

- c. Write short note on SEI capability maturity model.
- d. What is reliability growth model? Explain any two reliability growth models.
- e. What are the steps of conducting a post implementation project review?
- f. Explain the different reason for which a project may need to be terminated.

57826 Page 2 of 2