

Reg. No.

Question Paper Code

11501

B.E./B.Tech. - DEGREE EXAMINATIONS, NOV/DEC 2022

Seventh Semester

Computer Science and Engineering

(Common to Information Technology)

IT8075 - SOFTWARE PROJECT MANAGEMENT

(Regulations 2017)

Duration: 3 Hours

Max. Marks: 100

PART - A (10 × 2 = 20 Marks)

Answer ALL Questions

*Marks,
K-Level, CO*

- | | |
|---|-----------|
| 1. Define software project management. | 2,K1, CO1 |
| 2. Distinguish project process from the product process. | 2,K1, CO1 |
| 3. Prioritize the short comings of waterfall model. | 2,K2, CO2 |
| 4. Determine the factors sensitive to system size in COCOMO II model. | 2,K2, CO2 |
| 5. Write about Monte Carlo simulation method. | 2,K1, CO3 |
| 6. Identify the time estimates in PERT. | 2,K1, CO3 |
| 7. Draw the project control cycle model. | 2,K1, CO4 |
| 8. Compare Earned Value Analysis and Earned Value Management. | 2,K2, CO4 |
| 9. Classify the different leadership style. | 2,K1, CO5 |
| 10. Define Herzberg's two factor theory. | 2,K1, CO5 |

PART - B (5 × 13 = 65 Marks)

Answer ALL Questions

- | | |
|--|-----------|
| 11. a) Briefly explain about product development techniques. | 13,K2,CO1 |
| OR | |
| b) Examine in detail about various cost benefit analysis techniques with example. | 13,K2,CO1 |
| 12. a) Illustrate on the COCOMO II parametric productive model in detail with the steps in effort estimation technique. | 13,K3,CO2 |
| OR | |
| b) Identify the important characteristics of software development projects which make them harder to manage compared to other types of projects. Analyze for example, a building construction project. | 13,K3,CO2 |

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create

11501

13. a) Demonstrate on the cost schedule in detail and interpret on the factors to be considered in allocation of resource. 13,K3,CO3

OR

- b) Interpret and assess the objectives and sub-objectives of the Bright mouth College payroll project. What measures of effectiveness could be used to check the success in achieving the objectives of the project? 13,K3,CO3

14. a) Analyze the various ways in visualizing the progress of the project with neat diagram. 13,K3,CO4

OR

- b) Formulate with your own example how the earned value chart depicts scheduled progress, actual cost and actual progress(earned value) to allow the determination of spending, schedule and time variances. 13,K3,CO4

15. a) Illustrate the role of "Decision making" in the process of managing people and organizing teams. Identify the advantages and disadvantages of group decision making. 13,K1,CO3

OR

- b) As a project manager, prioritize the characteristics that you would look for in a software developer while trying to select personnel for your team. 13,K1,CO5

PART - C (1 × 15 = 15 Marks)

16. a) Demonstrate on how will you identify the major risks, & examine the various strategies for minimizing each of those risks. 15,K3,CO3

OR

- b) Draw the critical path diagram for the tabulated activities. Identify critical path and the duration of the project given below. 15,K3,CO3

Activity	Duration in days	Immediate Predecessor
A	9	-
B	10	-
C	9	A
D	15	B,C
E	12	B
F	4	D
G	8	E
H	10	F,G