Reg. No. | | | | | | | | | | |

| Question Paper Code | 12612 |

B.E. / B.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 2024
Sixth Semester
Computer Science and Engineering
20CSEL601 – SOFTWARE PROJECT MANAGEMENT
Regulation - 2020

Duration: 3 Hours   Max. Marks: 100

PART - A (10 × 2 = 20 Marks)
Answer ALL Questions

		Marks	K-Level	CO
1.	Identify the sequence of stages involved in typical project life cycle.	2	K2	CO1
2.	Distinguish between contract management & technical management.	2	K2	CO1
3.	Expand RAD. Is it incremental model? Justify.	2	K2	CO2
4.	Outline the advantages of agile unified process.	2	K2	CO2
5.	List the objective of activity planning.	2	K1	CO3
6.	Distinguish between CPM and PERT.	2	K2	CO3
7.	How to visualize progress?	2	K1	CO4
8.	Define configuration management.	2	K1	CO4
9.	Identify the role of Ethics in project management.	2	K2	CO5
10.	Define significance of Oldham-Hackman job characteristic model.	2	K1	CO5

PART - B (5 × 13 = 65 Marks)
Answer ALL Questions

11. a)	How does project management methodology differ for simple projects and complex projects? Explain in detail.	13	K2	CO1
	OR			
b)	Explain the stepwise project planning activities with a neat sketch.	13	K2	CO1
12. a)	Outline the spiral software development life cycle model with a diagram. What are strengths of the spiral model? What are the deficiencies of the spiral model? When to use the spiral model?	13	K3	CO2
	OR			
b)	Explain the steps in the COCOMO II effort estimation technique.	13	K3	CO2
13. a) i)	Summarize the stages involved in creating a project schedule.	6	K3	CO3
ii)	Describe the approaches used for identifying activities in a project.	7	K3	CO3
	OR			

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create   **12612**

b) i) Outline the strategies of planning for risk reduction and controlling problems.   6   K3 CO3

  ii) Demonstrate the seven categories of resources.   7   K3 CO3

14. a) Analyze the methods used for tracking project progress.   13 K3 CO4

OR

  b) With neat diagram bring the importance of Software Configuration Management (SCM).   13 K3 CO4

15. a) Discuss the different types of team structures used in the project management.   13 K2 CO5

OR

  b) Explain in detail about the Hackman and Oldham job characteristic model.   13 K2 CO5

PART - C (1 × 15 = 15 Marks)

16. a) Draw the critical path diagram for the tabulated activities. Identify critical path and the duration of the project.   15 K3 CO6

Activity	Duration(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

OR

  b) Write the functions in traffic light controller method. With the help of software project management, how will you solve the problem?   15 K3 CO6