K21P 0418

Reg. No. : ....

Name : ....

VI Semester M.C.A./M.C.A.(Lateral Entry) Degree (C.B.S.S. – Reg./Supple. (Including Mercy Chance)/Imp.) Examination, May 2021
(2014 Admission Onwards)
Elective – VI : MCA 6E24 : SOFTWARE PROJECT MANAGEMENT

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer **any ten** questions. **Each** question carries **three** marks :   (10×3=30)

1. What are the phases of a project life cycle ?
2. Discuss project constraints, in brief.
3. How do you write a project WBS ?
4. Write a note on types of project plans.
5. What is Gantt chart ? Why do we need this ?
6. What is software project estimation ? Why is it needed in a project ?
7. Write a note on project scheduling steps.
8. What is Cost Variance (CV) ?
9. Briefly discuss the software quality attributes.
10. What is risk management ?
11. Discuss the differences between SPI and CPI in project management.
12. Write a note on types of project organisation structures, in brief.
13. Write a note on project management style.
14. Explain common problems with software projects.
15. Explain any one methods of representing WBS.
16. Explain Milestone Charts.
17. What is the significance of project monitoring and control ?
18. What do you understand by Schedule Performance Index (SPI) ?
19. Explain quality control.
20. Write a note on Risk Breakdown Structure (RBS).

P.T.O.

SECTION – B

Answer **any five** questions. **Each** question carries **ten** marks : (5×10=50)

21. Explain in detail, Software Project Management (SPM) objectives and its framework.

22. Compare and contrast project life cycle and process life cycle.

23. With suitable example, explain WBS in detail.

24. Explain the different network diagrams in detail.

25. Define software project estimation and explain various estimation techniques in detail.

26. Explain in detail, risk management process steps.

27. Describe organisational structure in Project Management.

28. What are the differences between Quality Assurance and Quality Control ?

29. What is software project management ? What are the different project management styles ?

30. a) Explain earned value analysis. 4

    b) For the following project calculate SV, CV, SPI and CPI at the end of second month and interpret the status of the project : 6

Month	1	2	3	4
	Rs.	Rs.	Rs.	Rs.
Planned Value	11,10,000	6,00,000	25,00,000	8,00,000
Earned Value	10,00,000	7,50,000		
Actual Cost	12,50,000	5,00,000		

31. a) Explain in detail management spectrum. 5

    b) Define software project and explain its characteristics. 5

32. Explain the PERT project planning with example.

33. Define scheduling objectives and explain in detail building the project schedule.

34. Define software review and explain its types.

35. Define risk planning. Explain in detail, the steps involved in risk planning.

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