Code: 20A05504a

R20

B.Tech III Year I Semester (R20) Regular & Supplementary Examinations January 2024

SOFTWARE PROJECT MANAGEMENT

(Computer Science & Engineering)

Time: 3 hours Max. Marks: 70

PART – A

(Compulsory Question)

*****

1		Answer the following: (10 X 02 = 20 Marks)	
	(a)	What is automation ?	2M
	(b)	What is the significance of cost estimation ?	2M
	(c)	What is an engineering artifact ?	2M
	(d)	What is an programming artifact ?	2M
	(e)	What is WBS ?	2M
	(f)	What is minor milestone ?	2M
	(g)	What is a quality indicator ?	2M
	(h)	What is process instrumentation ?	2M
	(i)	What is CCPDS-R ?	2M
	(j)	What is a project organization ?	2M

PART – B

(Answer all the questions: 05 X 10 = 50 Marks)

2	Explain about reducing software product size in detail.	10M
	OR	
3	Explain about improving team effectiveness in detail.	10M
4	Explain about inception and elaboration phases of lifecycle in detail.	10M
	OR	
5	Explain about construction and transition phases of lifecycle in detail	10M
6	Explain about Inter Trans workflow in detail.	10M
	OR	
7	Explain about various checkpoints of the process in detail.	10M
8	Explain about the seven core metrics in detail.	10M
	OR	
9	Explain about tailoring the process in detail.	10M
10	Explain about line-of-business organizations in detail.	10M
	OR	
11	Explain about evolution of organizations in detail.	10M

*****

Code: 20A05504a

R20

B.Tech III Year I Semester (R20) Supplementary Examinations August 2023

SOFTWARE PROJECT MANAGEMENT

(Computer Science & Engineering)

Time: 3 hours Max. Marks: 70

PART – A

(Compulsory Question)

*****

1 Answer the following: (10 X 02 = 20 Marks)

(a) Define the term late design breakage. 2M

(b) Mention the five necessary improvements done in waterfall model for eliminating risk. 2M

(c) Define the term WBS. 2M

(d) How three different aspects of architecture can be viewed in a point of manager perspective? 2M

(e) Identify the three types of joint management reviews were conducted throughout the checkpoint of the process. 2M

(f) Define the term periodic status assessment. 2M

(g) Mention the three levels of process in automation. 2M

(h) "Change management is as critical to iterative processes as planning" Justify your answer. 2M

(i) List out the responsibilities of Software Engineering Process Authority in line of business organization. 2M

(j) Compare and contrast software management and software development team. 2M

PART – B

(Answer all the questions: 05 X 10 = 50 Marks)

2 Exemplify the evolution of software economics and the process of pragmatic software cost estimation. 10M

OR

3 Illustrate how reducing software product size, refining software processes and improving team effectiveness helps in improving software economics. Justify your answer. 10M

4 Identify and explain the Modern process approaches for solving conventional problems with a neat sketch. 10M

OR

5 Describe the different phases of Engineering stage and Production stage of software lifecycle in order to successfully manage a project. 10M

6 Exemplify the different activity levels across the lifecycle phase in detail. 10M

OR

7 Identify and explain the role of work break down structures, planning guidelines, cost and schedule estimation and interactive planning to achieve a balanced project plan. 10M

8 Explain the various building blocks of automation that supports the process workflow and describe how project environment is crucial for any long-lived software development project. 10M

OR

9 Illustrate the need for pragmatic software metrics and metrics automation in measuring and managing the process throughout the software development cycle. Also, explain how a process is tailored to specific characteristics of a project. 10M

10 Exemplify how next generation software economics is resulting in better economics of scale and improved return on investment profiles. 10M

OR

11 Illustrate the development progress summary of Command Center Processing and Display System Replacement (CCPDS – R) in detail. 10M

*****