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**PRESIDENCY UNIVERSITY
BENGALURU**

SET-B

**SCHOOL OF ENGINEERING
END TERM EXAMINATION – MAY/JUNE 2024**

Semester : Semester VIII - - 2020

Course Code : CSE3050

Course Name : Software Project Management

Program : B.Tech. Computer Science and
Engineering

Date : MAY 31-2024

Time : 9:30 AM-12:30 PM

Max Marks :100

Weightage : 50%

- Note:** 1. Answer ALL 5 FULL Questions.
2. Each Full Question carries 20 Marks
3. Scientific and non-programmable calculator are permitted.
4. Do not write any information on the question paper other than Roll Number.

- 1.a. State COCOMO Model with real time examples. [Knowledge] (C01) (04 Marks)
- 1.b. “To track the project Execution against the plan”. Which Project Process explains this statement? [Comprehension] (C01) (06 Marks)
- 1.c. Suppose you are the project head of a software project. Examine why it would not be proper to calculate the number of developers required for the project as a simple division of the effort estimate (in person-months).[Application]. (C01) (10 Marks)

or

- 2.a. State Effort Estimation techniques and Project Charter. [Knowledge] (C01) (04 Marks)
- 2.b. If the project to be completed with one year but it extended to two years. Illustrate the type of risks suits this scenario. [Comprehension] (C01) (06 Marks)
- 2.c. 1. Calculate the Estimate to Completion, Variance at Completion, Cost Performance Index, Schedule Performance Index, To Complete Performance Index for the given data: EV = 54, PV = 35, AC= 59, BAC=97, Assume new Estimate as 80 (C01) (10 Marks)
- 1.If we believe that both current cost and current schedule performance will impact future cost performance
- 2.If we believe that future expenditures will occur at the original forecasted amount (no more delays of the same kind in future)
- 3.If we believe the original conditions and assumptions are wrong [Application]

- 3.a. a) Define Pair Programming (C02) (04 Marks)
b) List and brief software maintenance types. [Knowledge]
- 3.b. Discuss in detail about Software Design Characteristics [Comprehension] (C02) (06 Marks)
- 3.c. Sketch and Illustrate Software Life Cycle Diagram for this scenario "To develop and implement Rapid Testing Software". [Application] (C02) (10 Marks)
- OR**
- 4.a. a) Define Status reports (C02) (04 Marks)
b) Define Prototypes. [Knowledge]
- 4.b. "To track the project Execution against the plan". Which project process explains this Statement? [Comprehension] (C02) (06 Marks)
- 4.c. Sketch and Illustrate Software Life Cycle Diagram for this scenario "To develop and implement a Machine Learning model to predict customer churn for a telecommunications company". [Application] (C02) (10 Marks)
- 5.a. Recite the statement "Customers are always looking for timely status reports". [Knowledge] (C03) (04 Marks)
- 5.b. Summarize the terms Negotiation Management, Rapport building Management, Reporting Management and Bottom line in Customer Management. [Comprehension] (C03) (06 Marks)
- 5.c. Apply the Concept suits this about Bottom Line and Return on Investment for Business Profit or credits. [Application] (C03) (10 Marks)
- OR**
- 6.a. List some advantages of Team Management. [Knowledge] (C03) (04 Marks)
- 6.b. Explain in detail about Request for Proposal and Request for Information. [Comprehension] (C03) (06 Marks)
- 6.c. Examine the statement "One major area where the project team needs to do a lot of rework is the requirement change request that the customer places with the project team". [Application] (C03) (10 Marks)
- 7.a. State Defect Tracking. [Knowledge] (C04) (04 Marks)
- 7.b. Examine the statement "when a test cases passes, this means that the application is working fine and vice versa". [Comprehension] (C04) (06 Marks)
- 7.c. Using Activity-on node network diagram find critical path and the total time required to complete the project when no delay occurs for the below activity list. [Application] (C04) (10 Marks)

TASKS	PREDECESSOR TASKS	TIME(WEEKS)
A	.	5
B	A	7
C	B	6
D	A	5
E	D	10
F	B	15
G	B	8
H	G	8
I	C	4
J	G	4

or

- 8.a List some advantages of Software Configuration Management. **(CO4) (04 Marks)**
[Knowledge]
- 8.b Explain the steps involved in Finding out the Critical Path with an example. **(CO4) (06 Marks)**
[Comprehension]
- 8.c Using Activity-on-node network diagram find critical path and the total time required to complete the project when no delay occurs for the below activity list. **(CO4) (10 Marks)**
[Application]

TASKS	PREDECESSOR TASKS	TIME(WEEKS)
P	.	5
Q	P	3
R	Q	8
S	R,S	2
T	S,T	6
U	Q,R	3
V	T	10
W	U,V	8

- 9.a Define Supplier Management and its advantages. **(CO3) (04 Marks)**
[Knowledge]
- 9.b "Communication is the major key to success". Paraphrase the statement. **(CO3) (06 Marks)**
[Comprehension]
- 9.c Demonstrate with a diagram, "Customer Management for the Project Innovative Solutions" **(CO3) (10 Marks)**
[Application]

Or

- 10.a Define Work Break Down structure. **(CO4) (04 Marks)**
[Knowledge]
- 10.b Examine the statement "These standards have been helping software services and products companies to develop, maintain, and operate software systems in an economical manner" **(CO4) (06 Marks)**
[Comprehension]
- 10.c Illustrate the different types of Standards used in Software Process Standards and Improvements. **(CO4) (10 Marks)**
[Application]