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**Question Paper Code : 53348**

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2019.

Seventh/Eighth Semester

Industrial Engineering

MG 6088 — SOFTWARE PROJECT MANAGEMENT

(Computer Science and Engineering/Electronics and Communication Engineering/  
Mechatronics Engineering/Information Technology)

(Regulation 2013)

(Also common to : PTMG 6088 — Software Project Management for  
B.E. (Part-Time) — Sixth Semester — Computer Science and Engineering —  
Regulation 2014)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Identify the sequence of stages involved in a typical project life cycle.
2. Mention the need of cost-benefit analysis.
3. Identify the uses of Rapid Application Development (RAD) model.
4. Determine the stages of estimation carried out in a software project.
5. List the objectives of activity planning.
6. Define risk exposure.
7. Name the methods used for assigning earned value in software project.
8. Show the stages in awarding a contract.
9. Define the terms : Storming, Forming.
10. Write the use of formal structure.

PART B — (5 × 13 = 65 marks)

11. (a) (i) Draw the project control cycle. (6)  
(ii) Analyze the various cost-benefit evaluation techniques. (7)

Or

- (b) Outline the steps involved in stepwise project planning.  
12. (a) Explain the function of incremental delivery process model with a neat sketch.

Or

- (b) (i) Explain the five major components of function point analysis. (6)  
(ii) Outline the strategies for software effort estimation techniques. (7)  
13. (a) (i) Summarize the stages involved in creating a project schedule. (6)  
(ii) Describe the approaches used for identifying activities in a project. (7)

Or

- (b) (i) Outline the strategies of planning for risk reduction and controlling problems. (6)  
(ii) What are the seven categories of resources? Explain. (7)  
14. (a) Analyze the methods used for tracking project progress.

Or

- (b) (i) Derive the steps involved in change control procedure. (9)  
(ii) Outline the advantages of fixed price contracts. (4)  
15. (a) (i) Explain the stages of recruitment process. (9)  
(ii) Describe the methods for improving motivation. (4)

Or

- (b) (i) State and explain the categories of group tasks. (9)  
(ii) Mention the measures to reduce drawbacks of group decision making. (4)

PART C — (1 × 15 = 15 marks)

16. (a) Create a precedence network for the following project. Calculate the earliest dates on which each activity may be started and completed of project using forward approach.

Activity	Duration (weeks)	Precedents
A Hardware selection	6	
B Software design	4	
C Install hardware	3	A
D Code and test software	4	B
E File take-on	3	B
F Write user manuals	10	
G User training	3	E, F
H Install and test system	2	C, D

Or

- (b) Analyze the importance of COCOMO model for software estimation.

