Mumbai University

November – 2018

B.Sc.IT: Semester – V

(Question Paper)

[CBCS – Choice Based]

SOFTWARE PROJECT MANAGEMENT

SOFTWARE PROJECT MANAGEMENT

NOVEMBER – 2018 | CBCS – CHOICE BASED

MUMBAI UNIVERSITY
B.SC.IT: SEM-V
CHOICE BASED

Time: 2 ½ Hours **Total Marks:** 75

NOTE:

(1) *All questions (Q.1 to Q.5) are compulsory.*
(2) *Figures on the right indicate total marks. All sub-questions carry equal marks.*
(3) *Write the question numbers clearly as mentioned in the Question Paper.*
(4) *Mixing of sub-questions is not allowed.*
(5) *Draw diagrams and give examples whenever necessary.*
(6) *Use of calculator or any other electronic gadget is not allowed.*

Q.1 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

(A) Briefly explain the different Phases of Project Management Life Cycle. **(5)**
(B) What is Project Charter in Software Project Management? What are the elements of Project Charter? **(5)**
(C) What is project Portfolio Management? Explain the key aspects of Project Portfolio Management. **(5)**
(D) Define the following terms: **(5)**
- **i)** *Net profit*
- **ii)** *Return on Investment*
- **iii)** *Payback period*
- **iv)** *Net present value*
- **v)** *Internal rate of return*

(E) What is a Project Product? Explain Product Breakdown Structure with the help of example. **(5)**
(F) What do you mean by scope and objective of a Project? List the activities involved in identifying project scope and objective. **(5)**

Q.2 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

(A) What do you understand by the term 'ceremonies' in a scrum project? Explain the different types of ceremonies that are observed in a Scrum project and their significance. **(5)**
(B) List the advantages and disadvantages of Software Prototyping. **(5)**
(C) Explain the five major components of Albrecht Function Point Analysis. **(5)**
(D) What is effort multipliers in COCOMO II model? List the Effort Multipliers used at Early Design. **(5)**
(E) Explain eight core principles of Dynamic Systems Development Method. **(5)**
(F) State Capers Jones rules of thumb for software estimation. **(5)**

Q.3 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

(A) With the help of example explain Forward Pass and Backward Pass to calculate activity duration in Network Diagram. **(5)**
(B) Define the following terms: **(5)**
- **i)** *Critical Path*
- **ii)** *Float*
- **iii)** *Free Float*
- **iv)** *Interfering Float*
- **v)** *Hammock Activity*

(C)	Explain Boehm's Top Ten Software Project Risks and the different Strategies for reducing it.	**(5)**
(D)	Write short note on Project Evaluation and Review Technique.	**(5)**
(E)	Explain the different categories of Cost Incurred in a Software Project.	**(5)**
(F)	What is Resource Smoothing? Explain two different ways of prioritizing activities for resource allocation.	**(5)**

Q.4 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

(A)	Explain review Process Model with the help of diagram.	**(5)**
(B)	What is meant by Software Configuration Management? Explain the two principal activities of Configuration Management.	**(5)**
(C)	Explain the main sections in a requirement document for Contract Placement.	**(5)**
(D)	What is Fixed Price Contract? List the advantages and disadvantages of Fixed Price Contract.	**(5)**
(E)	What are three important categories of Stress Management Techniques?	**(5)**
(F)	Explain Vroom's expectancy theory of Motivation.	**(5)**

Q.5 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

(A)	Explain the advantages of a Functional Organization Over Project Organization.	**(5)**
(B)	List the obstacles to Good Group Decision Making. Also explain Delphi Decision Making Process.	**(5)**
(C)	Write short note on SEI Capability Maturity Model.	**(5)**
(D)	What is Reliability Growth Model? Explain any two Reliability Growth Models.	**(5)**
(E)	What are the steps of conducting a post implementation Project Review?	**(5)**
(F)	Explain the different reason for which a Project may need to be terminated.	**(5)**