

Code No: **R194212A**

R19

Set No. 1

IV B.Tech II Semester Supplementary Examinations, May/June – 2024

SOFTWARE PROJECT MANAGEMENT

(Information Technology)

Time: 3 hours

Max. Marks: 75

*Answer any FIVE Questions
ONE Question from Each unit
All Questions Carry Equal Marks*

UNIT-I

- 1 a) What is management? Explain the different activities of the management. [7]
b) Explain different trends involved in Reducing Software Product Size. [8]

(OR)

- 2 a) Explain about Waterfall Model. What are the limitations of Waterfall Model? [7]
b) Describe the role of peer reviews in improving software economics. [8]

UNIT-II

- 3 a) Distinguish between the old way and the new way of software project management. [7]
b) What are the essential activities in inception and elaboration phases? [8]

(OR)

- 4 a) Give the primary objectives and essential activities of construction. [7]
b) Give an overview of the artifact sets. Explain the artifacts in the management set. [8]

UNIT-III

- 5 a) Discuss the importance of software architecture and its linkage with modern software development process? [7]
b) Explain about the workflow of an iteration in sequence with neat diagram? [8]

(OR)

- 6 a) List out views in architecture model for real-world systems and explain their purposes? [7]
b) Explain about the typical sequence of life-cycle checkpoints with diagram and concerns of the different stakeholders? [8]

UNIT-IV

- 7 a) Write a short note on work breakdown structure and list out the issues that are been faced by conventional work breakdown structure. [7]
b) Explain how process automation and change management are critical to an iterative process and how does metric automation become crucial to effective project control. [8]

(OR)

- 8 a) What are the steps involved in the cost and schedule estimating process? [7]
b) Explain project team evaluation of organization over the life cycle with neat diagram. [8]

UNIT-V

- 9 a) Explain various tools in Automation Building Blocks. [7]
b) Explain the role of seven core metrics in Life-Cycle Expectations [8]

(OR)

- 10 a) Explain the Seven Core Metrics. [7]
b) Explain different characterization parameters of COCOMO Model [8]



Code No: R1642042

R16

Set No. 1

IV B.Tech II Semester Supplementary Examinations, May/June – 2024
ELECTRONIC MEASUREMENTS AND INSTRUMENTATION
(Electronics and Communication Engineering)

Time: 3 hours

Max. Marks: 70

Question paper consists of Part-A and Part-B

Answer ALL sub questions from Part-A

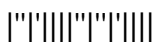
Answer any FOUR questions from Part-B

PART-A (14 Marks)

1. a) Define sensitivity. Express sensitivity mathematically. What is deflection factor? [2]
- b) Define the basic operating principle of signal generator? [2]
- c) Differentiate between dual beam and dual trace CRO? [3]
- d) What is the balance condition for a basic Kelvin bridge? [2]
- e) Mention the advantages of electrical transducers? [2]
- f) Explain the procedure for measurement of pressure? [3]

PART-B (4x14 = 56 Marks)

2. a) Explain different types of errors that occur in measurements. [7]
- b) List the salient features of voltage ohmmeter. [7]
3. a) Differentiate between fixed and variable AF oscillator? [7]
- b) Draw the block diagram of a function generator and explain its operation. [7]
4. a) Draw the neat diagrams of both vertical & horizontal deflection systems and explain briefly about their working. [7]
- b) Draw the block diagram of a dual beam oscilloscope & explain its working. [7]
5. a) Explain the working principle & operation of resonance bridge circuit. [7]
- b) Explain about Hay's Bridge for measurement of high Q coils. [7]
6. a) Explain strain gauge for resistance measurement & its applications. [7]
- b) Describe the operation of i) Resistive transducers ii) Capacitive transducers. [7]
7. a) Explain the terms proximity and displacement in detail. [7]
- b) Explain the procedure for measurement of humidity in detail. [7]



Code No:R1642052

R16

Set No. 1

IV B.Tech II Semester Supplementary Examinations, May/June – 2024
MANAGEMENT SCIENCE
(Common to Computer Science & Engineering and Information Technology)

Time: 3 hours

Max. Marks: 70

Question paper consists of Part-A and Part-B

Answer ALL sub questions from Part-A

Answer any FOUR questions from Part-B

PART–A(14 Marks)

1. a) Bring out the contrast between Theory -X and Theory -Y. [3]
- b) What is the need of inventory control? [2]
- c) List the major functions of personnel management. [2]
- d) How is PERT different from CPM? [3]
- e) What are the essential steps in corporate planning. [2]
- f) What is the role of automation in JIT? [2]

PART–B(4x14 = 56 Marks)

2. a) Define management. Explain the nature & scope of management. [7]
- b) What is an organization? Explain different types of organizations along with their merits and demerits. [7]
3. a) What do you mean by work study? Explain the basic procedure involved in method study and work measurement. [7]
- b) Explain the concept of 'Economic Order Quantity'. Describe the variables that go into the determination of EOQ. [7]
4. a) What is personnel management? Explain its features and functions. [7]
- b) Explain any three methods of Merit Rating. [7]
5. With the help of the following data
(i) Draw the Network diagram and
(ii) Identify the critical path and its length

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|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Activity | 1-2 | 1-3 | 2-4 | 3-4 | 4-5 | 5-6 | 3-5 | 5-7 | 6-7 |
| Duration (in days) | 6 | 8 | 7 | 12 | 3 | 5 | 7 | 9 | 10 |

[14]

6. Discuss the stages in the strategy formulation and implementation. [14]
7. Explain the enterprise resource planning and its utilities in management. [14]

