

Code No: R194212A

R19

Set No. 1

IV B.Tech II Semester Advance Supplementary Examinations, July-2023

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) Describe incremental delivery and spiral model and give its applications. [7]
b) Explain how to improve the software economics in detail? [8]
(OR)
- 2 a) Discuss the procedure to select measurements for specific projects. [7]
b) Explain the activities of software project management with an example? [8]

UNIT II

- 3 a) Explain the principles of modern software management in detail? [7]
b) Define Artifact. Write in detail about Management Artifacts? [8]
(OR)
- 4 a) Discuss the primary objectives and primary evaluation criteria of elaboration phase? [7]
b) Illustrate Engineering set artifacts? [8]

UNIT III

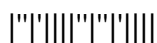
- 5 a) What is the role of management and implementation workflow? [7]
b) Explain in detail about periodic status assessments? [8]
(OR)
- 6 a) Explain the typical minor mile stones in the life cycle of iteration? [7]
b) What is the sequence of individual iteration's work flow? [8]

UNIT IV

- 7 a) Explain Evolutionary work break down structures? [7]
b) Discuss pragmatic planning in detail? [8]
(OR)
- 8 a) What do you mean LOB? Discuss in detail. [7]
b) Explain the cost and schedules timing process? [8]

UNIT V

- 9 a) Explain indetail various steps in software project estimation? [7]
b) Discuss about the Quality indicators. [8]
(OR)
- 10 a) Discuss in detail different models of COCOMO with an example? [7]
b) List all even core metrics. Discuss their purpose and perspectives. [8]



Code No: R1642042

R16

Set No. 1

IV B.Tech II Semester Advance Supplementary Examinations, July-2023
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) What are the indications of precision? [2]
- b) Write basic principle of a Digital Fourier analyzer? [2]
- c) What is the use of continuous sweep in CRO? [2]
- d) List out the applications of Anderson bridge? [3]
- e) Define Gauge factor for transducer? [2]
- f) Explain the significance of load cell in force measurement. [3]

PART-B (4x14 = 56 Marks)

2. a) List out different AC voltmeters and explain the working of any one voltmeter in detail. [7]
- b) Two ammeters are joined in series in a circuit carrying 100 A. one ammeter has a resistance of 10000 ohm shunted by 0.10 ohm while the other ammeter has a resistance of 150 ohm shunted by 0.02ohm. If the shunts are interchanged what would be the readings of the instruments? [7]
3. a) Draw the block diagram of fundamental suppressions harmonic distortion analyzer and explain its principle of operation. [7]
- b) Tabulate the comparisons between wave analyzer and harmonic distortion analyzer. [7]
4. a) Describe with a diagram and waveforms the operation of a dual trace CRO in alternate and Chop mode. State the functions of each block. [7]
- b) Compare dual beam and dual trace CRO. [7]
5. a) Draw the circuit and derive the condition of balance for a Maxwell– Wien bridge. [7]
- b) A Maxwell–Wien bridge consists of the following: Arm AB having resistance value of 1.2 k Ω in parallel with a capacitor of 1 μ F. Arm BC having resistance value of 500 Ω . Arm AD having resistance value of 300 Ω . Arm BD having resistance and inductance in series. Determine the value of the unknown resistance and unknown inductance. [7]
6. a) Explain the construction details and working principle of LVDT? How displacement is measured by LVDT? [7]
- b) What is thermistor? Explain their different forms of construction. Give the characteristics curve with applications of thermistor? [7]
7. a) What is a DAS? State the importance factors that decide the configuration and subsystem of DAS. [7]
- b) Explain a generalized Data acquisition system with a block diagram? [7]

