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
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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 timating 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 alls 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

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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 kΩ in parallel with a capacitor of 1 μF. Arm BC having resistance value of 500Ω. Arm AD having resistance value of 300Ω. 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]