CODE: 160E3041 SET-2

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI (AUTONOMOUS)

III B.Tech II Semester Regular Examinations, April, 2019

MANAGEMENT INFORMATION SYSTEMS

		(Open Elective – IV)	
Time: 3	Hour	Answer ONE Question from each Unit Each Questions Carry 14 Marks All parts of the Question must be answered at one place	Max Marks: 70
		<u>UNIT-I</u>	
	b)	Describe the Dimensions of Information List out the advantages of database systems. (OR)	7M 7M
2.	What	t is MIS? Illustrate the Nature, scope and importance of MIS.	14M
		<u>UNIT-II</u>	
3.	a) b)	What is normalisation? Discuss first normal form with example What are the disadvantages of FILES?	7M 7M
4.	a)	(OR) Discuss the features of relational DBMS	7M
	b)	Explain the following: (i) Machine language (ii) Assembly language (iii) High level language	7M ge
		<u>UNIT-III</u>	
5.	Discı	uss about each communication Hardware components.	14M
6.	What	(OR) t is a signal? Classify different types of signals with examples.	14M
		<u>UNIT-IV</u>	
7.	Desc	cribe the relevance and role of MIS in various phases of decision making. (OR)	14M
		Illustrate Simon's Model of decision making. Compare e-commerce and e-business.	7M 7M
		<u>UNIT-V</u>	
9.	Brie	efly explain 4 stage model of IS planning	14M
10.	Out	(OR) cline the need of information system?	14M

CODE: 16OE3042 SET-1 ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI (AUTONOMOUS)

III B.Tech II Semester Regular Examinations, April, 2019

NATURAL DISASTER MANAGEMENT

(Open Elective – IV)

Time: 3 Hours

Answer ONE Question from each Unit

Max Marks: 70

Write the causes and effects of natural disasters

Each Questions Carry 14 Marks
All parts of the Question must be answered at one place

UNIT-I

6M

	b)	Write the global view of the disaster and describe any two heavy disasters happened in the world	8M
		(OR)	
2.	a) b)	Describe the disaster management cycle and write the disaster profile of India Explain briefly about the types of disaster	7M 7M
		<u>UNIT-II</u>	
3.	a) b)	Briefly describe the causes, effects and mitigation measures of the floods Briefly explain about the types of manmade disasters (OR)	7M 7M
4.	a) b)	Write any 5 general mitigation measures of natural disasters Briefly describe the causes, effects and mitigation measures of the earthquakes	6M 8M
		<u>UNIT-III</u>	
5.	a) b)	Write any 5 points on advantages and importance of the disaster preparedness Describe the disaster preparedness plan for the people (OR)	6M 8M
6.		Explain the concept and nature of the disaster preparedness	14M
		<u>UNIT-IV</u>	
7.	a) b)	Explain the role of the team coordination in disaster mitigation management Give any five disaster mitigation strategies (OR)	7M 7M
8.	a)	Briefly describe the emerging trends in disaster mitigation.	7M
	b)	Briefly explain the disaster mitigation management	7M
		<u>UNIT-V</u>	
9.	a)	Explain long term counter disaster planning	5M
	b)	Explain the role of different agencies in recovery management (OR)	9M
10.	a)	Define reconstruction and rehabilitation	5M
	b)	Briefly explain the recovery measure after the post disaster	9M

CODE: 160E3043 SET-1

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI (AUTONOMOUS)

III B.Tech II Semester Regular Examinations, April, 2019

SPECIAL MACHINES

(Open Elective – IV)

Time: 3 Hours

Answer ONE Question from each Unit

Answer ONE Question from each Unit All Questions Carry Equal Marks All parts of the Question must be answered at one place

UNIT-I

1.	a) b)	Explain different power converter configurations for switched reluctance motor? What are the effects of saturation in SRM? (OR)	7M 7M
2.		What are the advantages and disadvantages of switched reluctance motors and mention the applications of switched reluctance motors?	14M
		<u>UNIT-II</u>	
3.	a) b)	Define the terms pull-in and pull-out torque of a stepper motor? Discuss different modes of excitation of stepper motors? (OR)	7M 7M
4.	a) b)	Describe hybrid stepper motor? List out areas of applications and suitability of stepper motors?	7M 7M
		<u>UNIT-III</u>	
5.	a) b)	Give the advantages and applications of BLDC motors? Explain the construction details of BLDC motor? (OR)	7M 7M
6.		What is a BLDC motor? Draw the back EMF waveforms and explain the switching logic for a three phase BLDC motors?	14M
		<u>UNIT-IV</u>	
7.	a) b)	Explain the principle of operation of a linear induction motor? What are the applications of Linear Induction Motor? (OR)	7M 7M
8.	a) b)	What is a B-H curve? Explain equivalent circuit of a permanent magnet? Why permanent magnet machines have high torque/weight ratio explain?	7M 7M
		<u>UNIT-V</u>	
9.	a) b)	Compare AC and DC traction systems and what are merits and demerits Explain clearly single sided linear induction motor for the application of traction drive?	7M 7M
1.0	`	(OR)	<i>7</i> 3.6
10.	a) b)	What is the selection criterion of motors for electric traction application? Explain. What are the merits and demerits of AC traction motors compare to DC traction motors?	7M 7M

CODE: 160E3044 SET-2

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI (AUTONOMOUS)

III B.Tech II Semester Regular Examinations, April, 2019

INTRODUCTION TO AUTOMOBILE ENGINEERING (Open Elective – IV)

Time: 3 Hours Max Marks: 70

Answer ONE Question from each Unit Each Questions Carry 14 Marks All parts of the Question must be answered at one place

	<u>UNIT-I</u>				
1. Label various components of four wheel automobile on a neat diagram and explain about any five components.					
2.	a)	(OR) Explain pressure lubrication system in an automobile with a neat diagram.	6 M		
	b)	Explain with neat diagrams any two types of oil filters.	8 M		
		<u>UNIT-II</u>			
3.	a)	Explain the working of Electrical pump used in fuel supply system of SI engines with a neat diagram.	10 M		
	b)	Label five components of a simple carburettor with a neat diagram (OR)	4 M		
4.	a) b)	Explain common rail fuel injection system in diesel engines with a neat diagram Explain individual pump fuel injection system with a neat diagram	7 M 7 M		
		<u>UNIT-III</u>			
5.	a)	Explain pump circulation system of water cooling in an automobile	10 M		
	b)	List any four advantages of water cooling system over air cooling (OR)	4 M		
6.	a) b)	Explain magneto coil ignition system with a neat diagram. List any four disadvantages of insufficient cooling	10 M 4 M		
	U)	List any four disadvantages of insufficient cooling	4 IVI		
		<u>UNIT-IV</u>			
7.	Exp	lain the working of any five components of charging system in an automobile	14 M		
0	`	(OR)	1034		
8.	a) b)	Explain constant mesh type gearbox with a neat diagram Explain the working of a clutch in an automobile	10 M 4 M		
	<u>UNIT-V</u>				
9.	a)	Explain Davis steering mechanism with a neat diagram	10 M		
	b)	List any three objectives of suspension system	4 M		
10.		(OR) plain the construction and working of Mechanical Braking System with a neat gram	14 M		

CODE: 160E3045 SET-1

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI (AUTONOMOUS)

III B.Tech II Semester Regular Examinations, April, 2019

BASICS OF VLSI

		BASICS OF VLSI	
		(Open Elective – IV)	
Time: 3	ime: 3 Hours Max Marks		
		Answer ONE Question from each Unit	
		Each Questions Carry 14 Marks	
		All parts of the Question must be answered at one place	
		<u>UNIT-I</u>	
1.	a)	Explain the MOS transistor operation with the help of neat sketches in the	7M
	b)	Depletion mode. Compare between CMOS and Binelar technologies	7M
	b)	Compare between CMOS and Bipolar technologies.	/ IVI
2.	٥)	(OR) Explain the fabrication of CMOS transistor with the help of neat sketches in N-	7M
۷.	a)		/ IVI
	b)	Well process. Discuss the steps involved in BiCMOS technology.	7M
	b)	Discuss the steps involved in BiCWOS technology.	/ IVI
		<u>UNIT-II</u>	
3.	a)	Derive the expression for I_{DS} in non-saturated region	7M
	b)	Obtain the ratio between Z_{PU} and Z_{PD} for an nMOS inverter driven by another	7M
	- /	nMOS inverter	
		(OR)	
4.	a)	Define figure of merit. Derive the expression for it?	7M
	b)	Discuss latch-up problem in CMOS circuits.	7 M
		<u>UNIT-III</u>	
5.	a)	Explain steps in VLSI design flow.	7M
٥.	b)	Design stick diagram for two input nMOS NAND and NOR gates	7M
	0)	(OR)	/ 1/1
6.	a)	Explain lambda based design rules.	7M
0.	b)	Design a layout diagram for CMOS inverter.	7M
	0)	UNIT-IV	/ 1/1
		OMI IV	
7.	a)	Derive the any five scaling factors for device parameters	7M
	b)	Explain scaling of MOS circuits. Give merits and demerits of scaling.	7M
	,	(OR)	
8.	a)	Give limitations of scaling?	7M
	b)	Derive the scaling factors for Ag ,Cg, R _{on} , T _d ,E _g device parameters	7M
		<u>UNIT-V</u>	
9.	a)	What is inverter delay? How delay is calculated for multiple stages	7M
	b)	Discuss briefly about wiring capacitances.	7M
		(OR)	
10.	a)	Explain the problem of driving of large capacitive loads? How such loads can be driven.	7M
	b)	Derive the expression for rise time and fall time in CMOS transistor?	7M

CODE: 160E3046 SET-2

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI (AUTONOMOUS)

III B.Tech II Semester Regular Examinations, April, 2019

SIMULATION AND MODELING

		SIMULATION AND MODELING	
		(Open Elective – IV)	
Time:	3 Hou	rs	Max Marks: 70
		Answer ONE Question from each Unit	
		Each Questions Carry 14 Marks	
		All parts of the Question must be answered at one place	
		<u>UNIT-I</u>	
1.	a)	Find the Advantages, Disadvantages and Pitfalls of Simulation	7M
	b)	Explain about Static and Dynamic physical models with suitable examp (OR)	les 7M
2.	a)	Illustrate the model of simulation study	7M
	b)	Elaborate to write the Nature of Simulation of a system	7M
		<u>UNIT-II</u>	
3.	a)	Contrast between Analytical and Simulation methods	5M
٥.	b)	Extend the Monte-Carlo Method with advantages and Disadvantages	9M
	c)	(OR)	7111
4.	a)	Give the detailed theory about Cobweb model	9M
	b)	Explain about the Distributed Lag Model of a system	5M
		<u>UNIT-III</u>	
5.	a)	Construct exponential Decay model for population system	7M
	b)	Develop System Dynamic Diagrams for a system model	7M
		(OR)	
6.	a)	Explain about the Discrete probability functions with neat tables	7M
	b)	Construct the Logistic curves of the system model	7M
		<u>UNIT-IV</u>	
7.	a)	Demonstrate the Poisson Arrival Patterns with a suitable examples	9M
	b)	Elaborate the Service times and Queuing disciplines (OR)	5M
8.	a)	Describe the Normal and exponential distribution	10M
0.	b)	Define the Queuing theory	4M
		<u>UNIT-V</u>	
9.	a)	Explain names, labels and SIMSCRIPT statements	7M
- •	b)	Give the details of Estimation methods of SIMSCRIPT	7M
	- /	(OR)	
10). a)	Elaborate the simulation software GPSS	7M
	b)	Demonstrate the organization of SIMSCRIPT program	7M

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CODE: 160E3047 SET-2

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI (AUTONOMOUS)

III B.Tech II Semester Regular Examinations, April, 2019

SOFT COMPLITING

		SOFT COMPUTING	
		(Open Elective – IV)	
Time: 3	Hou	rs Max Ma	rks: 70
		Answer ONE Question from each Unit	
		Each Questions Carry 14 Marks	
		All parts of the Question must be answered at one place	
		<u>UNIT-I</u>	
1.	a)	Outline the differences between hard computing and soft computing.	7M
	b)	Name and explain the different fuzzy membership functions with a diagram.	7M
		(OR)	
2.	a)	Explain the framework of a fuzzy expert system with a diagram.	7M
	b)	Explain the various types of soft computing techniques.	7M
		<u>UNIT-II</u>	
3.	a)	What is fuzzy relation? Explain with suitable example.	7M
	b)	Explain crisp relations briefly.	7M
	ŕ	(OR)	
4.	a)	Present a framework of a fuzzy inference system and explain the same.	7M
	b)	Write short notes on fuzzification and defuzzification to crisp sets.	7M
		<u>UNIT-III</u>	
5.	a)	Explain fitness functions in respect of evolutionary computing.	7M
	b)	What is genetic algorithm? Explain briefly.	7M
	,	(\mathbf{OR})	
6.	a)	Explain genetic algorithm based back propagation network.	7M
	b)	Draw the architecture of Genetic algorithms. Explain in detail.	7M
		<u>UNIT-IV</u>	
7.	a)	Appraise with an example supervised and unsupervised learning neural networks.	7M
,.	,	Explain neural network architecture.	7M
	U)	(OR)	, 1,1
8.	a)	Give a detailed description of various learning techniques.	7M
	b)	Explain Radial Basis Function Networks.	7M
		<u>UNIT-V</u>	
9.	a)	What is Artificial Neural Networks. Explain briefly.	7M
7.	b)	Explain Back propagation Multilayer perceptron.	7M
	3)	(OR)	/111
10	-)	Frankin Mahaman Salfamaninina Naturaha	71.4

1 of 1

Distinguish Hebbian Learning and Self-Organizing Networks Learning.

7M

7M

Explain Kohonen Self organizing Networks.

10. a)

CODE: 160E3048

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI (AUTONOMOUS)

III B.Tech II Semester Regular Examinations, April, 2019

SENSORS AND TRANSDUCERS

		(Open Elective – IV)	
Time: 3	Hou	· ·	ks: 70
		Answer ONE Question from each Unit	
		All Questions Carry Equal Marks	
		All parts of the Question must be answered at one place	
		<u>UNIT-I</u>	
1.	a)	Draw the functional block diagram of a measurement system and discuss each block?	8M
	b)	Define following performance characteristics	6M
		i. Speed of response ii. Lag iii. Dynamic error (OR)	
2.	a)	classify different type of errors and elimination methods	8M
	b)	Define performance characteristics	6M
	ŕ	I Sensitivity ii. Linearity iii Resolution	
		<u>UNIT-II</u>	
3.	a)	Write the principle and working of seismic type accelerometer	7M
	b)	Explain principle and operation of capacitive displacement transducer.	7M
		(OR)	
4.	a)	Explain principle and operation of inductive displacement transducer	7M
	b)	Explain principle and operation of vibration measurement.	7M
		<u>UNIT-III</u>	
5.	a)	Explain principle and operation of strain gauge load cell for tensional and compression.	8M
	b)	Explain principle and operation of optical torsion meter for torque measurement?	6M
		(OR)	
6.	a)	Explain different type of strain gauges?	6M
	b)	Explain principle and operation of stroboscope for speed measurement?	8M
		<u>UNIT-IV</u>	
7.	a)	Write the procedure to measure unknown pressure using Thermal conductivity Gauge?	7M
	b)	Explain principle and operation of RTD's with neat sketch?	7 M
		(OR)	
8.	a)	How to measure the level measurement by using inductive transducer?	7M
	b)	Draw and explain the expansion type bourdon tube pressure gauges?	7M
		<u>UNIT-V</u>	
9.	a)	Explain the measurement of flow rate using hot wire anemometer?	7M
	b)	Explain the measurement of humidity using Sling Psychomotor?	7M
		(OR)	
10.	a)	Draw and explain Dew point meter for Measurement of moisture?	7M
	b)	Explain the measurement of flow rate using magnetic flow meter?	7M

CODE: 13CE3018 SET-2

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI (AUTONOMOUS)

III B.Tech II Semester Supplementary Examinations, April-2019

TRANSPORTATION ENGINEERING – II (Civil Engineering) Time: 3 Hours Max Marks: 70 PART-A ANSWER ALL QUESTIONS $[1 \times 10 = 10 \text{ M}]$ 1. a) Name the component layers in a flexible pavement? b) How do you define Durability of road aggregates? c) Define Modulus of Subgrade reaction. d) List out the types of joints provided in Rigid Pavement? e) Explain the term cant deficiency f) Write the importance of highway drainage. g) Write two points the highway user benefits. h) Write the uses of dowel bars and tie bar. The application of ______ diagram is used to find the orientation of runway to get the desired wind coverage. j) An aircraft is flying in an atmosphere of 30°C with a speed of 1260 km ph. Its speed is known as? **PART-B Answer one question from each unit** [5x12=60M]**UNIT-I** 2. a) What are the various types of joints in cement concrete 6M roads? Explain with neat sketches. b) Explain the CBR method for designing of flexible 6M pavement with neat sketch (\mathbf{OR}) 3. a) Write about different types of Failures in rigid pavements. 6M

flexible pavements as per IRC.

b) Explain about the failure criteria's considered in the design of 6M

4. a) What is highway drainage? Explain about the importance 6M of highway drainage and its types? b) Explain the detailed construction procedure of bituminous 6M pavement. (OR) 5. a) Explain the step wise design procedure of Dowel bars? 6M b) List out the causes for Rutting and Alligator Cracking? 6M **UNIT-III** 6. Discuss about the methods in economic analysis for 12M highways (OR) Explain about the methods of highway financing? 7. 12M **UNIT-IV** 8. a) What is a gradient? What are they provided on railway 6M track? How are they classified? b) Describe the different types of marshalling yards with 6M neat sketches. (OR) 9. a) Discuss different types of rail joints with help of neat 6M sketches and give their merits and limitations. b) Discuss merits and limitations of railways. 6M **UNIT-V** 10 The length of runway under standard conditions is 12M 1620m. The airport site has an elevation of 270m. Its reference temperature is 32.90°C. If the runway is to be constructed with an effective gradient of 0.20%. Determine the corrected runway length. (OR) 11 The length of a runway at mean sea level, standard 12M temperature and zero gradients is 1600m. The site has an elevation of 320m, with a reference temperature of 33.6°C. The runway has to be constructed with an effective gradient of 0.25%. Determine the actual length of the runway at site.

CODE: 13ME3025 SET-1

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI (AUTONOMOUS)

III B.Tech II Semester Supplementary Examinations, April-2019 AUTOMOBILE ENGINEERING (Mechanical Engineering)

Time: 3 Hours Max Marks: 70

PART-A

ANSWER ALL QUESTIONS

 $[1 \times 10 = 10 \text{ M}]$

- 1. a) What are the advantages of four wheel drive
 - b) Name the automotive parts to be lubricated
 - c) State the functions of air filter
 - d) The term 'CRDI' of an automobile stands for?
 - e) Name the liquid coolants used in modern automotive engines.
 - f) What does the condenser do in the ignition system?
 - g) Explain the working principle of an Alternator.
 - h) Name the type of gear teeth used for constant mesh gear box.
 - i) Name the important angles of steering geometry.
 - j) Which type of independent suspension system is mostly used in front drive vehicles.

PART-B

Answer one question from each unit

[5x12=60M]

UNIT-I

- 2. a) Classify automotive engines on the basis of valve arrangement 6m
 - b) With a neat sketch, describe the power transmission system of 6m a front engine rear wheel drive.

(OR)

- 3. a) Outline the various components of automobile 6m
 - b) What do you mean by front engine front wheel drive? Explain 6m with the help of neat diagram.

UNIT-II

- 4. a) With a neat sketch, explain the working principle of a mechanical fuel pump.
 - b) Discuss the functional requirements of Fuel injection system 6m for CI engines.

1 of 2

5. a) Describe the working principle of an electrical diaphragm 6m fuel pump. b) Describe the main features of an electronic fuel injection 6m system. **UNIT-III** 6. a) Sketch the forced water circulation system used in 6m automobiles and explain. b) Briefly explain the working of Battery ignition system with 6m the help of simplified sketch. (OR) 7. a) What are the different cooling systems used in automobiles? 6m Discuss water cooling system in diesel engine in detail. 6m b) Explain the following with reference to ignition system (i) Distributor (ii) Spark plug (iii) Contact breaker **UNIT-IV** 8. a) Explain the working of charging circuit. 6m b) Enumerate the functions of transmission system and discuss 6m about the working of a sliding mesh gear box. 9. a) Explain the working of Bendix drive mechanism with a neat 6m sketch. b) With the help of a neat sketch explain layout of an automobile 6m power transmission system. Briefly mention function of each component. **UNIT-V** 10. a) With a simple sketch, explain the working principle of 6m automotive steering system. b) What are the components of a vehicle suspension system? 6m Briefly explain the role of each component. (OR) 11. a) Explain the following (i) Caster angle (ii) Camber angle 6m (iii) King pin angle b) With a neat sketch describe the working of hydraulic brake 6m system.

CODE: 13CS3024 SET-1

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI (AUTONOMOUS)

III B.Tech II Semester Supplementary Examinations, April-2019

SOFTWARE PROJECT MANAGEMENT (Computer Science Engineering)

	(Computer Science Engineering)				
Time: 3 Hours	Time: 3 Hours Max Marks: 70				
ANSWER ALL	QUESTIONS PART-A [1	x 10 = 10 M]			
b) 1 c) 3 d) 1 e) 1 f) 1 g) 1 h) 3	What are the basic steps to build a program? Define Size of Software Economics? What is a Macro process? List out the life cycle phases. Define Architecture? List the Artifact Sets. Define SEPA? What is the purpose of software management team? List the Management Indicators. Define MTBF?				
	PART-B				
Answer one qu	nestion from each unit <u>UNIT-I</u>	[5x12=60M]			
b)	Explain about the Waterfall model in practice Discuss the conventional software management performance.	6M 6M			
3. a)	(OR) Explain in detail about the three generations of soft economics. Explain briefly about Pragmatic software cost estim				
4. a)	<u>UNIT-II</u> List out and Explain the important trends in improv software economics.				
b)	What are primary objectives and essential activities	of 4M			

elaboration phase?

(CODE: 13CS3024 SE		ET-1
		(OR)	
5.		State and explain the principles of conventional Software Engineering?	2 12M
		<u>UNIT-III</u>	
6.	a)	Give an overview of the artifact sets that make the development of a complete software system manageable.	8M
	b)		4M
		(OR)	
7.		What is the sequence of individual iteration's workflow?	12M
		<u>UNIT-IV</u>	
8.		Discuss the conventional work breakdown structures? (OR)	12M
9.	a)	Explain in detail the responsibilities of the four component teams in a default line-of-business organization.	8M
	b)	What are the activities of software management team?	4 M
	0)	visus are the activities of software management teams	-111
		<u>UNIT-V</u>	
10	b)		8M 4M
		(OR)	
11		Describe Briefly about Process Discriminants	12M

SET-1 **SUB CODE: 13IT3006**

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI (AUTONOMOUS)

III B.Tech II Semester Supplementary Examinations, April-2019 **IMAGE PROCESSING**

(Elective -1)

(Information Technology)

Time: 3 Hours Max Marks: 70

PART-A

ANSWER ALL QUESTIONS

 $[1 \times 10 = 10 \text{ M}]$

- 1. a. Distinguish between Binary Image and gray scale image.
 - b. Explain the types of neighborhoods.
 - c. What is Gray Level Slicing?
 - d. Give the filter response function which performs smoothing in frequency domain.
 - e. Explain the relationship between compression ratio and relative data redundancy.
 - f. What is Bit plane coding?
 - g. What are approximate and detail coefficients of wavelet transform?
 - h. List the Sobel masks for Edge Detection
 - i. What is mean by Edge Linking?
 - j. What is Image Sensing?

. PART-B

Answer one question from each unit

[5x12=60M]

UNIT-I

- 2. a) Explain the fundamental steps of Digital Image Processing. [6M] b) Explain sampling & quantization? [6M]

3. a) Discus different types of digital images?

[6M]

b) Discuss different color models.

[6M]

<u>UNIT-II</u>

	4.		Explain Histogram Equalization with derivation & example.	[12M]
	5.	a)	(OR) Explain Smoothing Spatial filters.	[6M]
	5.	a)	Explain Smoothing Spatial Inters.	[OIVI]
		b)	Discuss any two Gray level Transformations. UNIT-III	[6M]
6.	a) b)		hat is Redundancy? Explain different types of Redundancy? rite short notes on Variable Length Coding? (OR)	[6M] [6M]
7.			scuss in detail about Image compression model and all its ages.	[12M]
			UNIT-IV	
	8.	a		[6M]
		b)		
			i) Dilation & Erosionii) Opening & Closing	[3M] [3M]
			ii) Opening & Closing	
			(OR)	
	9.		Explain about i) Boundary Extraction	[4M]
			ii) Region Filling	[4M]
			iii) Convex Hull	[4M]
			<u>UNIT-V</u>	
1	0.		Discuss i) Point Detection ii) Line Detection iii) Edge Detection	[4M] [4M] [4M]
			(OR)	
]	11.	a) b)	Explain Basic Adaptive Thresholding. Discuss linking & boundary detection.	[6M] [6M]