

Sub Code: 19BCE8TH01 CONSTRUCTION TECHNOLOGY AND MANAGEMENT

Time: 3 hours

(CE)

Max. Marks: 60

Note: Answer All FIVE Questions.

All Ouestions Carry Equal Marks (5 X 12 = 60M)

		All Questions Carry Equal Marks (5 X 12 = 60M)	KL	CO	M
.No		Questions	KL	CO	141
		Unit-I	2	1	6M
		i) Explain the difference between PERT and CPM?	2	1	
	a	ii) What is a milestone chart? How can a mile stone chart be developed into a		•	6M
1		network?			
1		OR CRIM	2	1	6M
		i) What are the different types of floats involved in CPM	2	1	OIVI
	b	ii) What is a Gantt bar chart? Explain with the help of a suitable example, the	4	1	6M
		method of preparing a bar chart			
		Unit-II	1 2	2	
		i) What do you understand by 'earliest start time' and 'latest start time of an	2	2	6M
	a	activity'? How are these determined?	-	1	6M
		ii) Explain the method of time -cost optimization of project network	2	2	6M
2		OR		T 0	
		<ol> <li>Explain about Project evaluation and review technique with one</li> </ol>	2	2	6M
		eyample?	<del></del>	-	
	b	ii) Draw a typical cost – duration curve and show on the optimum duration	2	2	6M
		and minimum project Cost.			
		Unit-III			(2.6
	-	<ol> <li>Discuss about monitoring and controlling in project planning</li> </ol>	2	3	6M
	a	ii) Explain about Contract document	2	3	6M
3	-	OR			
	-	i) What is contract? Write the conditions of contracts?	2	3	6M
	b	ii) What is Tender? Discuss about tender document?	2	3	6M
	+-	Unit-IV		-,-	
		i) Explain in detail Resources Smoothing method of Resources allocation	2	4	12M
	a	problems			122112
4		OR			
		i) Explain in detail about the allocation of resources	2	4	6M
	b	ii) Write about the Functions of material management department	2	4	6M
	+-	Unit-V			
	-	i) Write on the safety precautions to be followed at construction sites	2	5	6M
	a	i) Write on the safety precautions to be followed at construction sites  ii) Describe the quality control and safety engineering in construction.	2	5	6M
_	-	OR			
5	-	of against at the construction site	2	5	6M
	1	i) State and describe various causes of accidents at the construction site ii) What do you understand by Quality Control in Construction industry? How it	2	5	6M
	b	helps in good quality of workmanship			OIVI
		helps in good quality of working in the property			

KL: Blooms Taxonomy Knowledge Level CO: Course Outcome



Sub Code: 19BCE8PE04

ENVIRONMENTAL IMPACT ASSESSMENT

Time: 3 hours (CE) Max. Marks: 60

Note: Answer All **FIVE** Questions. All Questions Carry Equal Marks (5 X 12 = 60M)

Q.No	Oversions Carry Equal Marks (5 X 12 = 60)			
	Questions Unit-I	KL	CO	M
	i) What is Environmental Impact Assessment (EIA)? How it can be useful as			,
	planning tool for Environmental Protection in various developmental projects?		1	6M
	a 11) Explain the criteria for formalizing various alternatives for any project. How d	o K2	1	-
1	you make a comparative evolution of different alternatives? Explain trade of	f I	1	6M
	analysis?			OIVI
	OR			
	i) Explain various steps involved in adopting EIA as a planning tool for any majo	r K1	1	
	b project activity.			6M
	ii) What are the critical assessment criteria in any EIA methodology?	K1	1	6M
	Unit-II			
	i) What are adhoc methods? Where they are useful? What are its draw backs?	K1	2	6M
	a ii) What are overlay methods? How GIS is useful as advanced tool in overlay	1,2	2	
2	methods?			6M
	OR in Francis 198			
	i) Explain are different types of scales used in scaling check list methods	K1	2	6M
	b ii) Discuss the salient features of Rapid assessment methods. What are various	K2	2	
	pollution load factors.  Unit-III			6M
	-3 Ca-25			
	i) What are the important features of land, which have to be taken into consideration	K2	3	01
	for assessing the impacts of different land uses in developmental projects?			6M
	ii) What is water balance method for calculating leachate flow through a site? What is	K1	3	O.
3	Darcy's law for describing ground water flow through a saturated porous medium?  OR			6M
	i) Discuss the qualitative, simple quantitative and specific quantitative methods for impact prediction on soil and ground water environment?	K2	3	6M
	ii) Discuss various general guidelines for incl.			OIVI
	ii) Discuss various general guidelines for implementation of mitigation measures necessary to prevent soil erosion & compaction and ground water pollution.	K2	3	6M
	Unit-IV			OIVI
l	i) Discuss typical mitigation measures that should be adopted to various water related			
1	ISSUES.	K2	4	6M
- 1	ii) Discuss various phases involved using six step conceptual model for the study of			OIVI
4	biological impacts of any developmental activity.	K1	4	6M
	OR			OIVI
	i) What is meant by impact significance? How do you assess it with reference to			
	b biological and ecological effects?	K2	4	6M
	ii) List the steps that are to be followed when conducting an EIA for air environment.			
	Unit-V	K1	4	6M
	i) What is meant by Environmental Risk Assessment? How it is different from EIA?	77.1		
5	ii) Enumerate the environmental Impact of developmental activities on deforestation.	K1		6M
5	OR	K2	5	6M
Γ	b i) Explain various key steps in performing an Environmental Risk Assessment	77.1		
	ii) Enumerate the environmental Impact of developmental activities on wildlife.	K1		6M
	and the state of the principal activities on whatte.	K2	5	6M



Sub Code: 19BEE8TH01

UTILIZATION OF ELECTRICAL ENERGY

Time: 3 hours

(EEE)

Max. Marks: 60

Note: Answer All FIVE Questions.

All Questions Carry Equal Marks (5 X 12 = 60M)

		All Questions Carry Equal Marks (5 X 12 = 60M)	KL	СО	M
Q.No		Questions Unit-I	KL	CO	141
		i) Explain the Principle of Resistance heating	Rem	1	6M
	a		Und	1	
	u	ii) Compare Direct and Indirect resistance heating Methods	Ond	1	6M
1		OR	T T 3	1	
		i) Summarize the requirements of good heating material	Und	1	6M
	b	ii) Explain Induction heating and give its types	Rem	1	6M
		Unit-II			
		i) State the advantages electrical welding	Rem	2	6M
	a	ii) What is Resistance welding and identify its types	Rem	2	6M
2		OR			
		i) Briefly explain the types of electrodes	Und	2	6M
	b	ii) Compare and contrast between Resistance and Arc Welding	Und	2	6M
		Unit-III		1 -	
		i)Explain the Laws of illumination	Rem	3	6M
	a	ii) What do you mean by discharge lamp? Explain Rousseau's construction	Rem	3	6M
3		for calculating MSCP of a lamp.  OR		<u> </u>	
		i) Compare fluorescent and filament lamps on basis of equality of light,	Und	3	CM
	L	capital and running cost?			6M
	b	ii) Identify sources of light	App	3	6M
	-	Unit-IV			
		i) Describe the Systems of electric traction	Und	4	6M
	a	ii) identify the Special features of traction motor	App	4	6M
4		OR			
	_	i) sketch the typical speed- time curves for(a)main line service and explain	app	4	6M
	b	ii) Explain the Mechanics of train movement	Und	4	6M
	-	Unit-V			
		i) Derive the expression for the tractive effort for propulsion of a train on	App	5	6M
		lovel track	Und	5	
	a	ii) Define specific energy consumption and discuss the factors which affect the specific energy consumptions of trains operating at a given scheduled	Ond		6M
5		speed			
		OR			
		i) Explain the Effect of varying acceleration and braking retardation	Und	5	6M
	b	ii) Write note on Adhesive weight and braking retardation	Und	5	6M
		The second of th			

KL: Blooms Taxonomy Knowledge Level CO: Course Outcome M:Marks\*\*\*



Sub Code: 19BEE8PE04 PROGRAMMABLE LOGIC CONTROLLER & APPLICATIONS

Time: 3 hours

(EEE)

Max. Marks: 60

Note: Answer All FIVE Questions.

All Questions Carry Equal Marks (5 X 12 = 60M)

ONE	$\top$	All Questions Carry Equal Marks (5 X 12 = 60M)	T	T = -						
Q.No	+	Questions	KL	CO	M					
	-	i) Classify I/O modules and explain interfacing	77 1	T 4						
	a	-	Und	1	6M					
	Lu Lu	ii) Identify input instructions	Und	1	6M					
1		OR								
		i) Describe about Programming formats in detail	Rem	1	6M					
	b	ii) Construct a ladder diagram and explain with a flow chart for spray process system.	Und	1	6M					
		Unit-II								
		i) Identify the Characteristics of Registers	Rem	2	6M					
	a	ii) Write about Holding registers	Und	2	6M					
2		OR								
		i) Explain the concept of module addressing	Und	2	6M					
	b	ii) Compare Input registers and Output registers.	Und	2	6M					
	1	Unit-III								
		i) Outline the Timer functions with example	Rem	3	6M					
	a	ii) Identify the industrial applications using Counter function	Und	3	6M					
3	OR									
3		i) Summarize the Arithmetic functions	Rem	3	6M					
	b	ii) Differentiate Number comparison functions and Number conversion	Und	3						
		functions.			6M					
		Unit-IV								
		i)Why Master control Relay is used and explain	Und	4	6M					
4	a	ii) Explain Sweep functions and their applications with example	Und	4	6M					
		OR	Ond	-	OIVI					
	b	i) Write a program to control of two axes Robot	Und	4	12M					
		Unit-V								
		i)Explain multi bit data processing	Und	5	6M					
_	a	ii) Write about PID tuning	Und	5	6M					
5		OR								
		i) What is the principle PID and explain	Und	5	6M					
	b	ii) explain the principle of Position indicator with PID control	Und	5	6M					
	-		50.50 5.545	- 222	OIAI					

KL: Blooms Taxonomy Knowledge Level CO: Course Outcome M:Marks



Sub Code: 19BME8PE04

ROBOTICS AND APPLICATIONS

Time: 3 hours

(ME)

Max. Marks: 60

Note: Answer All FIVE Questions.

All Questions Carry Equal Marks  $(5 \times 12 = 60 \text{M})$ KL CO M Q.No **Ouestions** Unit-I Sketch and explain the four basic robot configurations classified according 12M to the coordinate system. K2 CO<sub>1</sub> OR 1 Determine the transformation matrix T that represents a translation of 'a' units along x-axis, followed by a rotation of β about x-axis and followed by 12M b a rotation of  $\Theta$  about z-axis. K3 CO<sub>1</sub> Unit-II i) What are the uses of sensor in robotics? Explain the types of sensors used 6M in robotics? K4 CO<sub>2</sub> a ii) Distinguish between External and internal sensors with applications 6M CO<sub>2</sub> 2 K4 OR Discuss the performance characteristics of actuators. Compare electrical, 12M b pneumatic & hydraulic actuators for their characteristics K3 CO<sub>2</sub> Unit-III Determine the manipulator jacobian matrix and singularities for the 3-DOF 12M a K4 CO<sub>3</sub> articulated arm. 3 OR Derive the Inverse kinematics of the 3-DOF manipulator by considering an 12M b CO<sub>3</sub> K4 example Unit-IV Determine the dynamic equations for the two-link manipulator shown in Figure 1, using Lagrange-Euler formulation. Assume that the whole mass of the link can be considered as a point mass located at the outermost end of each link. The masses are m1 and m2 and the link lengths are a<sub>1</sub> and a<sub>2</sub>. CO<sub>4</sub> K4 12M a 4 Figure1 OR Explain about Newton - Euler formulations by considering an example K4 CO<sub>4</sub> 12M

		Unit-V		,					
5	a	i) Explain the applications of Robot in spot and continuous arc welding	K4	CO5	6M				
	a	ii) What are general considerations in Robot material handling?	K4	CO5	6M				
	OR								
		i) In which type of production, robots are preferred for loading and			6M				
	b	unloading function? Explain.	K4	CO5	Olvi				
		ii) Explain use of robot in assembly operation	K4	CO5	6M				

KL: Blooms Taxonomy Knowledge Level



Sub Code: 19BME8PE07 PRODUCTION PLANNING AND CONTROL

Time: 3 hours

Max. Marks: 60

Note: Answer All FIVE Questions.

All Questions Carry Equal Marks  $(5 \times 12 = 60M)$ 

Q.No	T	All Questions Carry Equal Marks (5 X 12 = 60M)			
Q.110	+	Questions Unit-I	KL	CO	M
	a	Define Production Planning and Control. Also explain its functions.	K2	C01	12M
1		OR		v	
		Explain the types of production systems with the help of examples. Also	K4	CO1	T
	b	discuss the suitable layouts.			12M
		Unit-II			
		i)Define Forecasting and discuss its significance.	K1	CO2	6M
2	a	ii) Distinguish between qualitative and quantitative forecasting methods.	K2	CO2	6M
_	_	OR			-
	ь	i)list out the general principles of forecasting.	K1	CO2	6M
		ii) Explain any two methods for forecasting demand for new products.	K4	CO2	6M
		Unit-III			
		i)Define Inventory. Also discuss the functions of Inventory.	K1	CO3	6M
	a	ii)List out the various Inventory cost. Also explain how they vary with	K4	CO3	
3		respect to ordering quantity.			6M
3		OR			
		i) Elaborate the basic principle in ABC analysis with the help of an	K2	CO3	
	b	example.			6M
		ii)Derive the expression for Economic ordering quantity.	КЗ	CO3	6M
		Unit-IV			
	a	i) Define Routing. Explain the factors affecting routing procedure.	K2	CO4	6M
4	α	ii) Mention the factors affecting routing procedure.	K1	CO4	6M
[		OR			
	b	Explain in detail about the bill of material (BOM) in MRP	K2	CO4	12M
		Unit-V			
	a	i)Differentiate between loading and scheduling.	K2	CO5	6M
5	a	ii)State any three scheduling rules.	K1	CO5	6M
3		OR		I	
	1	i)Outline the Dispatching procedure.	K1	CO5	6M
	U	ii) Discuss applications of computer in production planning and control.	K4	CO5	6M
TET DI	-				

KL: Blooms Taxonomy Knowledge Level



(AUTONOMOUS)

# IV B.Tech II Semester Regular Examinations, April-2023

Sub Code: 19BEC8PE01

CELLULAR & MOBILE COMMUNICATION

Time: 3 hours

(ECE)

Max. Marks: 60

Note: Answer All **FIVE** Questions.

All Questions Carry Equal Marks (5 X 12 = 60M)

		All Questions Carry Equal Marks (5 X 12 - 601VI)	IZI	CO	M			
Q.No		Questions	KL	CO	IVI			
Unit-I								
		i) Describe the digital cellular land mobile systems and the limitations of	3	1	6M			
		AMPS standard		1				
	a	ii) Explain how co-channel interference is measured in real time mobile	3	1	6M			
		radio transceivers						
1		OR						
		i) Explain the significance of following cellular concepts in detail	2	1	6M			
		i) Interference ii) System Capacity						
	b	ii) Differentiate the analog & digital cellular systems with their operating	2	1	6M			
		capacities			01.1			
		Unit-II						
		i)Explain the following terms in detail	2	2	6M			
	a	(i) Polarization Diversity (ii) Time Diversity.			OIVI			
	a	ii)write short notes on Adjacent Channel Interference	2	2	6M			
2	-	OR						
	-	i)Explain the concept of Antenna Parameters	3	2	OM			
	1	and Their Effects			6M			
	b	ii) What is Near End Far End Interference and Explain?	3	2	6M			
	_	Unit-III						
	_	i) Discuss about the minimum separation of cell site antennas?	4	3	6M			
	a		4	3	6M			
		ii) Explain space diversity antennas	-		01/1			
3		OR	5	3				
		i) Draw the symmetrical difference pattern and compare it with symmetrical	3	3	6M			
	b	sum pattern		3	6M			
		ii) Explain about Umbrella pattern antennas	5	3	OIVI			
		Unit-IV	-	T 4	OI			
		i) Explain how the handoffs implemented based on signal strength?	1	4	6M			
	a	ii) How the dropped call rate is related to the capacity and voice quality	1	4	6M			
4		OR			_			
		i) What are the different types of handoffs? Explain how to implement them?	2	4	6M			
	b	ii) What are the different factors that limit the size of splitting cells?	2	4	6M			
	+-	Unit-V						
	-	i) Discuss the salient features of FDMA and TDMA techniques.	3	5	6M			
	a	ii) With suitable block diagram explain the GSM architecture	3	5	6M			
5		OR						
	-	i) Why CDMA is needed and explain it with an example?	4	5	6M			
	b	ii) Discuss about GSM channels	4	5	6M			
		11) Discuss about GSW Channels						

KL: Blooms Taxonomy Knowledge Level CO: Course Outcome M:Marks



(AUTONOMOUS)

## IV B.Tech II Semester Regular Examinations, April-2023

Sub Code: 19BEC8PE06

RADAR SYSTEMS

Time: 3 hours (ECE) Max. Marks: 60
Note: Answer All **FIVE** Questions. All Questions Carry Equal Marks (5 X 12 = 60M)

	Note: Answer All FIVE Questions. All Questions Carry Equal Marks $(5 \times 12 = 60M)$			
Q.No	Questions	KL	CO	M
1	Unit-I			
	i) With the help of a neat block diagram, explain the principle of operation of Radar	2	1	6M
	ii) What are the various Radar system losses? Explain in detail	2	1	6M
	OR			
	b i) Derive the expression for Radar range equation in terms of Signal-to-noise ratio.	3	1	6M
	ii) Write the applications of Radar	3	1	6M
	Unit-II			
	i) Explain the principle of operation of Continuous Wave Radar with non-zero IF	4	2	6M
	a receiver			
	ii) Explain the principle of operation of FM-CW altimeter with a near diagram	4	2	6M
2	OR			
	i) What are the factors that limit the amount of isolation between Transmitter and	2	2	6M
	Receiver of CW Radar? Explain			OIVI
	ii) Calculate the Doppler frequency seen by a Stationary Continuous Wave Radar	2	2	6M
	with a transmit frequency of 5 GHz when the target radial velocity is 100 km/h			6M
	Unit-III			
	i) What is the importance of staggered pulse repetition frequencies in the design of	1	3	CM.
	an MTI Radar? Explain			6M
	ii) Explain the function of a single delay line canceller and derive an expression for	1	3	CM
3	the frequency response function.	ĺ	1 1	6M
	OR			
	i) Explain the operation of an MTI Radar with power amplifier transmitter	2	3	6M
	b ii) MTI radar is operating at a frequency of 9 GHz with a PRF of 3000 Hz. Calculate	2	3	01
	the first two lowest blind speeds for this radar. Derive the formula used.			6M
	Unit-IV			
	i) Explain the Monopulse tracking in two angel coordinates	4	4	6M
	ii) Compare the various tracking techniques.	4	4	6M
4	OR			
	i) Explain the basic principle of a sequential lobing tracking Radar with neat	3	4	
	b) diagrams.			6M
	ii) What are the factors need to be considered for optimum squint angle? Explain	3	4	6M
	Unit-V			
	i) What is a Duplexer and explain the principle of operation of typical Duplexer with	5	5	
	a schematic diagram.			6M
	a ii) How the beam width of a Phased array antenna varies with the steering angle?	5	5	
	Explain			6M
5	OR		11	
	i) Derive the expression for the frequency response of a Matched filter receiver with	4	5	
	non white noise input.			6M
	bi) Draw and explain the structures of balanced duplexer during transmission and	4	5	
	reception modes.	-		6M
	reception modes.		$\perp$	



(AUTONOMOUS)

### IV B.Tech II Semester Regular Examinations, April-2023

Sub Code: 19BCI8PE01

#### **DEEP LEARNING**

Time: 3 hours

(IT)

Max. Marks: 60

Note: Answer All FIVE Questions.

All Questions Carry Equal Marks (5 X 12 = 60M)

Q.No	T	Questions Questions	KL	CO	М			
Q.NO		Unit-I	INL	- 00				
		i) Define Stochastic Gradient Descent algorithm with an example.	2	1	6M			
	а	ii) Distinguish between Supervised and Unsupervised learning Algorithms.	2	1	6M			
1		OR						
		i) Discuss how hyper parameter tuning can be done.	2	1	6M			
	b	ii) Discuss how hyper parameter tuning can be done.	2	1	6M			
		Unit-II						
		i) Explain about Gradient-Based Learning.	2	2	6M			
	а	ii) What is regularization? How is it applied in deep learning?	2	2	6M			
2		OR						
		Discuss about back-propagation. Explain in detail how it can be applied	2	2	1014			
	b	with an example.			12M			
	Unit-III							
		i) Discuss how learning algorithms differ from pure optimization.	2	3	6M			
	а	ii) What are Parameter Initialization Strategies? Explain any one strategy in	2	3	CN			
3		detail.			6M			
	OR							
		i) Discuss various challenges in Neural Network optimization.	2	3	6M			
	b	ii) Distinguish between optimization strategies and Meta-algorithms.	2	3	6M			
		Unit-IV						
	а	i) Explain the working of convolutional neural networks in detail.	2	4	12M			
4		OR						
7		i) What are unsupervised features? Give example.	2	4	6M			
	b	ii) Define pooling. How is it useful?	2	4	6M			
		Unit-V						
		i) What is a Bidirectional RNN? How is it different from RNN?	2	5	6M			
5	а	ii)Discuss the challenges of Long-Term Dependencies.	2	5	6M			
		OR						
	b	Explain the working of recurrent neural networks in detail.	2	5	12M			

KL: Blooms Taxonomy Knowledge Level CO: Course Outcome M:Marks



Sub Code: 19BCS8PE03

E-COMMERCE

Time: 3 hours

(CSE)

Max. Marks: 60

Note: Answer All FIVE Questions.

All Questions Carry Equal Marks (5 X 12 = 60M)

		All Questions Carry Equal Marks (5 X 12 = 60M)	TZT	00	3.4		
Q.No		Questions	KL	CO	M		
4		Unit-I					
	a	Explain about anatomy of E-Commerce applications.	K2	1	12M		
1	-	OR					
	b	Discuss about "Quick Response Chain" with neat sketch	K2	1	12M		
		Unit-II					
		i) Explain consumer – oriental applications.	K2	2	6M		
	a	ii) Explain mercantile models from the merchant's perspective.	K2	2	6M		
2	<u> </u>	OR					
	T.	i) Explain E-cash & E-cheques.	K3	2	6M		
	b	ii) Explain risks in electronic payment systems.	K3	2	6M		
	1	Unit-III					
		i) Explain the role of E-Commerce in Retailing	K2	3	6M		
	a	ii) Illustrate product or service customization in Intra organizational E- Commerce	K2	3	6M		
3	OR						
	b	i) Identify how work flow automation and coordination helps in Intra organizational E-Commerce.	K2	3	6M		
		ii) Explain the role of E-Commerce in Supply chain management.	K2	3	6M		
	+-	Unit-IV					
		i)Write the functions performed by Data Ware house	K2	4	6M		
	a	ii)Explain about Digital Document Management Issues and Concerns	K2	4	6M		
4		OR	•				
4		i) Discuss about Corporate Data Warehouse	K2	4	6M		
	b	ii)Explain the key components of online advertising.	K2	4	6M		
		Unit-V					
	GAR.	i)What is information filtering? Discuss about different information filters.	K4	5	6M		
	a	ii) Write a short note on Market Research.	K4	5	6M		
5		OR					
	b	What is indexing? How indexing had its impact on data searching? Justify.	K2	5	12M		
		The state of the s					

KL: Blooms Taxonomy Knowledge Level

Sub Code: 19BCI8PE08

INTERNET OF THINGS

Time: 3 hours

(CSE)

Max. Marks: 60

Note: Answer All FIVE Questions.

All Questions Carry Equal Marks (5 X 12 = 60M)

	All Questions Carry Equal Marks (5 X 12 = 60M)						
Q.No	Questions	KL	CO	M			
	Unit-I						
1	i)Explain IOT Levels and Deployment Templates?	2	1	6M			
	ii)Explain Logical Design and Characteristics of IOT?	2	1	6M			
	OR						
	b i)What are different IOT Protocols? Explain Briefly?	2	1	6M			
	ii)Explain Physical Design of IOT?	2	1	6M			
	Unit-II						
	i)Analyze Domain model Specification of IOT?	4	2	6M			
2	a ii) Explain Device and Component integration of IOT?	2	2	6M			
2	OR						
	i)Analyze IOT Level Specification?	4	2	6M			
	ii)Compare functional and operational Views of IOT?	4	2	6M			
	Unit-III						
	i)How you prototype embedded device using ARDUINO? Explain?	2	3	6M			
	a ii) Explain the necessity of sensors and micro controllers in IOT device	2	3	01			
	design?			6M			
3	OR						
	i) Develop the prototype of Embedded device using Raspberry pi, Explain	3	3	01			
	in brief?			6M			
	ii)What are extension boards? Explain their usage in Prototype	2	3	0.1			
	development?			6M			
	Unit-IV	1					
	i)Explain different IOT Cloud storage models?	2	4	6M			
4	a ii)Analyze how WAMP is useful for IOT Developments?	4	4	6M			
4	OR						
	, i)Explain IOT Physical servers?	2	4	6M			
	ii)Explain Xively cloud for IOT	2	4	6M			
	Unit-V						
	i)Analyze IOT Design for Home applications?	4	5	6M			
-	a ii)Justify is IOT suitable to develop smart cities?	2	5	6M			
5	OR			0211			
	i)Explain the smart agriculture with an application?	2	5	6M			
	ii)Explain smart home automation process sing IOT?	2	5	6M			
IZI DI	Toyonomy Knowledge Level CO. Course Outcome M.M. Le		2	OIVI			

KL: Blooms Taxonomy Knowledge Level



MOBILE ADHOC AND SENSOR NETWORKS Sub Code: 19BIT8PE05 Time: 3 hours

(IT) Max. Marks: 60

Note: Answer All FIVE Questions.

All Questions Carry Equal Marks (5 X 12 = 60M)

		All Questions Carry Equal Marks (5 X 12 = 60M)			
Q.No	<u> </u>	Questions	KL	СО	M
	_	Unit-I	1 2	1	
		Compare and Contrast proactive reactive and hybrid routing	3	1	6M
	a	protocols			OIVI
1		ii) Explain about WRP protocol	2	1	6M
		OR			
		i) Explain about LANMAR routing	2	1	6M
	b	ii) Discuss about Cluster Based Routing Protocol	2	1	6M
		Unit-II			
		i) Explain the mobility related solutions of TCP	2	2	6M
2	a	ii) Explain the path asymmetry impact on TCP	2	2	6M
		OR			
	b	i) Explain the MAC layer impact on TCP over adhoc	2	2	12M
		Unit-III			
		i) Explain the Energy Conservation in WSN	2	3	6M
	a	ii) Explain any three WSN Applications	2	3	6M
3		OR			
3		i) Compare and contrast the regularly placed sensors and randomly	3	3	
	b	distributed sensors			6M
		ii) Explain about Heterogeneous and Mobile Sensors	2	3	6M
	_	Unit-IV			0111
	_	i) Explain the SMAC protocol	2	3	01
	a				6M
4		ii)Discuss about EAR protocol	2	3	6M
4		OR		, ,	
	L	i) Discuss Directed Diffusion with neat sketch	2	3	6M
	b	ii)Explain about Energy aware routing protocol	2	3	6M
		Unit-V			
5	a	i) Explain the ingredients of heterogeneous architecture	2	4	12M
J		OR			
	b	i) Explain the comparison of integrated architectures	2	4	12M

KL: Blooms Taxonomy Knowledge Level