Hall Ticket No:											Question Paper Code: 14CE410
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(UGC-AUTONOMOUS)

B.Tech IV Year II Semester (R14) Supplementary End Semester Examinations – JULY 2021

ENVIRONMENTAL IMPACT ASSESSMENT

(Civil Engineering)

Time: 3Hrs

Max Marks: 60

Attempt all the questions. All parts of the question must be answered in one place only.

All parts of Q.no 1 are compulsory. In Q.no 2 to 6 answer either A or B only

Q.No		Marks	СО	BL
Q.1	i. Illustrate the term quality index.	1M	CO1	2
	ii. Define assessment of a parameter.	1M	CO1	1
	iii. List the sources of ground water pollution	1M	CO2	1
	iv Write any two methods for control of air pollution.	1M	CO2	1
	v. Define deforestation.	1M	CO3	1
	vi Recall the term wild life.	1M	CO3	1
	vii. Illustrate the term audit.	1M	CO4	2
	viii. What do you mean by EBM in EIA project?	1M	CO4	1
	ix. Define motor act.	1M	CO5	1
	x. Illustrate the necessity pof water act.	1M	CO5	2
Q.2(A)	Discuss the various criteria for the selection of Environmental Impact Assessment method briefly. OR	10M	CO1	6
Q.2(B)	Describe the environmental impact assessment by Ad-hoc methods in detail.	10M	CO1	2
Q.3(A)	Enumerate the various causes of air pollution and its impacts on human health. OR	10M	CO2	6
Q.3(B)	Summarize the different methodology adopted for Identification and Incorporation of mitigation measures in detail.	10M	CO2	2
Q.4(A)	Discuss in detail the causes and effect of deforestation OR	10M	CO3	6
Q.4(B)	Elaborate in detail about the Impact of deforestation on environment.	10M	CO3	6
Q.5(A)	Describe elaborately about the preparation and evaluation of Environmandit report OR	10M	CO4	2
Q.5(B)	Discuss how the post auditing of a project is carried out and also its outcomes.	10M	CO4	6
Q.6(A)	Summarize elaborately about the wildlife protection act in India. OR	10M	CO5	2
Q.6(B)	Discuss in detail about preparation of Environmental impact assessment for Beverage industry.	10M	CO5	6

Hali Ticket No:											Question Paper Code: 14CE412
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(UGC-AUTONOMOUS)

B.Tech IV Year II Semester (R14) Regular & Supplementary End Semester Examinations – JULY 2021 GROUND IMPROVEMENT TECHNIQUES

(Civil Engineering)

Time: 3Hrs

Max Marks: 60

Attempt all the questions. All parts of the question must be answered in one place only.

All parts of Q.no 1 are compulsory. In Q.no 2 to 6 answer either A or B only

Q.No			СО	BL
Q.1	i. What is the need for engineered ground improvement	? 1M	CO1	1
-	ii. Write different methods of Dewatering.	1M	CO1	1
	iii. What are the objectives of densification of soil?	1M	CO2	1
	iv State the principle of preloading.	1M	CO2	1
	v. What do you mean by Soil Stabilization?	1M	CO3	1
	vi Write the principle involved in bituminous stabilization	of soil. 1M	CO3	1
	vii. What do you mean by reinforced earth?	1M	CO4	1
	viii. Write various geo synthetic materials.	1M	CO4	1
	ix. Define Expansive Soil.	1M	CO5	1
	x. List out the various methods of determination of swelli	ng pressure. 1M	CO5	1
Q.2(A)	Describe the classification of Ground Improvement Technique OR	es. 10M	CO1	2
Q.2(B)	What do you mean by Grouting? Explain various methods of	Grouting. 10M	CO1	1
Q.3(A)	Write various in situ densification methods of granular densification of soil by Vibro- flotation method. OR	soil? Explain 10M	CO2	1
Q.3(B)	What are the In-situ densification methods in cohesive soils? objectives and applications of stone Column.	Discuss the 10M	CO2	1
Q.4(A)	Discuss the use of lime stabilization of soils. what are the chemical changes that takes place in lime stabilization. OR	physical and 10M	CO3	6
Q.4(B)	What is mechanical stabilization? What are the factors that	at affect the 10M	CO3	
Q.7(D)	mechanical stability of a mixed soil.	at affect the 1000	COS	1
Q.5(A)			CO4	1
	With the help of neat sketch explain the component parts of			
Q.5(A)	With the help of neat sketch explain the component parts of OR	reinforced ear 10M	CO4	1

Hall Ticket No: Question Paper Code: 14EEE412

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

(UGC-AUTONOMOUS)

B.Tech IV Year II Semester (R14) Regular & Supplementary End Semester Examinations – July 2021

WIND ELECTRICAL SYSTEMS

(EEE)

Time: 3Hrs

Max Marks: 60

Attempt all the questions. All parts of the question must be answered in one place only.

All parts of Q.no 1 are compulsory. In Q.no 2 to 6 answer either Part-A or B only

Q.No			Marks	СО	BL
Q.1	i.	What are the variable speeds of Wind Power Plants? Give two examples.	1M	CO1	1
	ii.	What do you mean by gear train in a Wind Turbine System?	1M	CO1	1
	III.	What is the function of an anemometer in a Wind Generation System?	1M	CO2	1
	iv	Mention the significance of variable pitch control system over fixed pitch control system in a Wind Power Plant.	1M	CO2	1
	V.	Mention the limitations of SCIG.	1M	CO3	1
	vi	Describe the operating principle of DFIG.	1M	CO3	1
	vii.	Define power quality.	1M	CO4	1
	viii.	Define Unbalance in a power system.	1M	CO4	1
	ix.	What is the Government Act for market development?	1M	CO5	1
	x.	What are the issues related to hybrid power generation?	1M	CO5	1
Q.2(A)	Ι .	y explain how wind energy is converted to electrical energy using a wind ne using a neat diagram. OR	10M	CO1	2
Q.2(B)	Derive	e the expression for power in wind from the fundamentals.	10M	CO1	4
	4		100.0	000	
Q.3(A)		y explain the different control strategies available for a WPP based on Control. OR	10M	CO2	2
Q.3(B)	00	est a configuration for a fixed speed WECS such that it can operate under ble speeds also. Use relevant diagrams.	10M	CO2	2
Q.4(A)		a neat block diagram explain the principle of working of a DFIG based power plant. OR	10M	CO3	2
Q.4(B)		a neat block diagram explain the principle of working of a WRSG based power plant.	10M	CO3	1
Q.5(A)		e the terminologies (a) Voltage Sag (b) Voltage Swell (c) Flicker and rmonics in a power system. OR	10M	CO4	2
Q.5(B)	Discus	ss the working of IGBT based inverter in WPP.	10M	CO4	6
Q.6(A)		n the operation of a generalized wind-solar hybrid system with a neat natic diagram. OR	10M	CO5	2
Q.6(B)	i) Brie	fly explain the wind interconnection requirements.	5M	CO5	2
· 1-1		at is the role of Government in renewable energy market development?	5M	CO5	1

Hall Ticket No:											Question Paper Code: 14ME412
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(UGC-AUTONOMOUS)

B.Tech IV Year II Semester (R14) Regular & Supplementary End Semester Examinations – JULY 2021

ENTREPRENEURSHIP

(Mechanical Engineering)

Time: 3Hrs

Max Marks: 60

Attempt all the questions. All parts of the question must be answered in one place only.

All parts of Q.no 1 are compulsory. In Q.no 2 to 6 answer either A or B only

Q.1	i. Define Intrapreneur.			
	ii beinie intrapreneari	1M	CO1	1
	ii. Name any two women Entrepreneurs in any business.	1M	CO1	1
	iii. What are the problems encountered in inventory analysis?	1M	CO2	2
	iv Justify internet advertising will be most effective than other	r modes. 1M	CO2	1
	v. What is the purpose of material handling equipment in pla	nts? 1M	CO3	1
	vi Which are the financing systems will be the sources of fund	ds? 1M	CO3	1
	vii. How do you select the production techniques?	1M	CO4	1
	viii. Give an example for fixed position layout.	1M	CO4	1
	ix. Justify internet advertising will be most effective than other	r modes. 1M	CO5	2
	x. State quality control in simple line.	1M	CO5	1
Q.2(A)	Describe important roles of women entrepreneurship and list the entrepreneurship schemes in India. OR	ne women 10M	CO1	2
Q.2(B)	Explain the common traits of successful Entrepreneur and example	d give an 10M	CO1	2
Q.3(A)	Describe the principle of creative problem-solving process. OR	10M	CO2	2
Q.3(B)	Explain the usage and implementation of business plan.	10M	CO2	2
Q.4(A)	Write briefly about Strategic approaches for various financing of for starting new venture and its advantages. OR	categories 10M	CO3	1
Q.4(B)	Discuss the processes of motivating and leading teams performance on their job.	to better 10M	CO3	6
Q.5(A)	List the factors to be considered for choosing plant location and I OR	ayout. 10M	CO4	1
Q.5(B)	Discuss flexible and cellular manufacturing systems.	10M	CO4	6
Q.6(A)	Explain the effective material handling system and its importance OR	e. 10M	CO5	2
Q.6(B)	Describe the market research process with example.	10M	CO5	2

Hall Ticket No: Question Paper Code: 14ME413

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

(UGC-AUTONOMOUS)

B.Tech IV Year II Semester (R14) Regular & Supplementary End Semester Examinations – JULY 2021

AUTOMOTIVE TECHNOLOGY

(Mechanical Engineering)

Time: 3Hrs

Attempt all the questions. All parts of the question must be answered in one place only.

All parts of Q.no 1 are compulsory. In Q.no 2 to 6 answer either A or B only

Max Marks: 60

Q.No			Marks	СО	BL
Q.1	i,	List any three parts of IC engine.	1M	CO1	1
	ii.	State any two advantages of using baffle plate in silencer.	1M	CO1	1
	iii.	What is the function of connecting rod in IC engine?	1M	CO2	1
	iv	Why piston of 4 stroke engine is smaller than 2 stroke engine?	1M	CO2	1
	V.	What is ignition delay?	1M	CO3	1
	vi	Give any firing order in IC Engine.	1M	CO3	1
	vii.	Define relative efficiency.	1M	CO4	1
	viii.	What is air – fuel ratio for the chemically correct mixture?	1M	CO4	1
	ix.	Why hydrogen fuel is a clean fuel?	1M	CO5	1
	х.	State detonation of IC engine.	1M	CO5	1
Q.2(A)	i) Dif	ferentiate between SI and CI engine.	5M	CO1	3
	ii) Cla	assify the Internal combustion engine. OR	5M	CO1	4
Q.2(B)	1	ve the expressions for the thermal efficiency, work output and mean tive pressure of the Carnot cycle.	10M	CO1	2
Q.3(A)	comp trans Dete cycle	deal Otto cycle has a compression ratio of 8. At the beginning of the pression process, air is at 100 kPa and 17°C and 800 kJ/kg of heat is ferred to air during the constant volume heat addition process. rmine: (1) Maximum temperature and pressure that occur during the (2) the network output, (3) thermal efficiency and (4) Mean effective sure for the cycle.	10M	CO2	2
Q.3(B)	What	t is meant by knocking? Explain the factors affecting it.	10M	CO2	1
Q.4(A)	Sket	ch and explain the working of electronic fuel injection system. OR	10M	CO3	2
Q.4(B)	Expla	in with a neat sketch the S.U carburettor.	10M	CO3	2
Q.5(A)		ribe the various methods of engine cooling? Explain with sketch the nosyphon system of cooling. OR	10M	CO4	2
Q.5(B)		he functions of the lubrication system in an automobile. Explain with a sketch the pressure lubrication system.	10M	CO4	1
Q.6(A)	Expla	in the construction and working of single plate clutch with neat sketch. OR	10M	CO5	2
Q.6(B)	Write	e a short note on propeller shaft and universal joint. ***END***	10M	CO5	1

Hall Ticket No:							Question P	aper	Code	: 14E	CE4	12
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(UGC-AUTONOMOUS)

B.Tech IV Year II Semester (R14) Regular & Supplementary End Semester Examinations – July 2021 SATELLITE COMMUNICATION

(ECE)

Time: 3Hrs Max Marks: 60

			Marks	СО	BL
Q.1	i. Wh	at are orbital elements?	1M	CO1	1
	ii. Wh	at is look angle?	1M	CO1	1
	iii. Wha	at is the main advantage of FDMA?	1M	CO2	1
		w the TDMA frame structure with two transmitting earth ions.	1M	CO2	2
	v. Wha	at is the relation between elevation angle and cloud attenuation.	1M	CO3	1
		what frequency, rain is the dominant propagation phenomenon atellite links.	1M	CO3	1
	vii. Wha	at is the typical slant range to a GEO satellite?	1M	CO4	1
	viii. Expa	and DAMA.	1M	CO4	2
	ix. Wha	at is NGSO?	1M	CO5	1
	x. Whi	ch code is used by GPS satellites to transmit?	1M	CO5	1
Q.2(A)	system ar	block diagrammatic representation of satellite communication and explain each block. Also mention the advantages of satellite	10M	CO1	2
	communic				
		OR	411		
Q.2(B)	Explain te sketch.	lemetry, tracking, command and monitoring in detail with neat	10M	CO1	2
Q.3(A)	Distinguis	h TDMA and FDMA	10M	CO2	4
		OR			
Q.3(B)	Explain di	gital transmission of analog signals.	10M	CO2	2
Q.4(A)	Explain ab	out antenna system and tracking system in an earth station.	10M	CO3	2
		OR			
Q.4(B)	Discuss va	rious noises disturbing the received signal from satellite at earth	10M	CO3	6
Q.5(A)	Explain va	rious access control protocols of VSAT.	10M	CO4	2
		OR			
Q.5(B)	Derive the	expression for link margin for VSAT Network.	10M	CO4	3
Q.6(A)	Explain th	e principle of GPS and discuss GPS C/A accuracy.	10M	CO5	2
		OR			
Q.6(B)	With neat	functional block diagram explain the GPS receiver operation.	10M	CO5	1
		*** END***			

Hall Ticket No:								Question Paper Code: 14ECE415
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(UGC-AUTONOMOUS)

B.Tech IV Year II Semester (R14) Regular & Supplementary End Semester Examinations – July 2021 IOT NETWORKS

(ECE)

Time: 3Hrs

Max Marks: 60

Q.No			Marks	СО	BL
Q.1	i,	Mention the features of E- Health,	1M	CO1	1
	ii.	Sketch the Architecture of IoT.	1M	CO1	2
	iii.	Define FTP.	1M	CO2	1
	iv	Discuss about data accumulation.	1M	CO2	1
	٧.	Write about edge computing.	1M	CO3	1
	vi	Expand MQTT.	1M	CO3	2
	vii,	List out the examples of LAN.	1M	CO4	1
	viii.	Define watchdog timer.	1M	CO4	1
	ix.	Define bus topology.	1M	CO5	1
	х.	Expand ETSI.	1M	CO5	2
Q.2(A)	Discu	uss about E- Health Applications in detail.	10M	CO1	6
		OR			
Q.2(B)	Desc diagr	ribe the working scenario of health monitoring system using IoT with relevant ams.	10M	CO1	2
Q.3(A)	Write	e about MQTT with neat sketches.	10M	CO2	1
		OR			
Q.3(B)	Defin	e XML? Explain about local and remote procedure calls.	10M	CO2	2
Q.4(A)	Write	e about IETF standard architecture with its diagram	10M	CO3	1
	.,	OR			
Q.4(B)	Expla	in about IoT architecture with neat sketches.	10M	CO3	2
Q.5(A)	Outli deme	ne the mesh topology with relevant diagrams and mention their merits and erits.	10M	CO4	2
		OR			
Q.5(B)	Write	e about knowledge management with neat diagrams.	10M	CO4	1
Q.6(A)	List o	ut the features of ATmega328 registers in detail.	10M	CO5	1
		OR			
Q.6(B)	Draw	and Explain the block diagram of Arduino Uno with an example.	10M	CO5	2
		*** END***			

Hall Ticket No: Question Paper Code: 14CSU412

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

(UGC-AUTONOMOUS)

B.Tech IV Year II Semester (R14) Regular & Supplementary End Semester Examinations –July 2021 SOFTWARE PROJECT MANAGEMENT

(CSE)

Time: 3Hrs Max Marks: 60

Q.No		Marks	СО	BL	
Q.1	i. What is waterfall model?	1M	CO1	1	
	ii. Define software economics. List out the various parameters.	1M	CO1	1	
	iii. Define artifacts of the process.	1M	CO2	1	
	iv Can you identify the task of engineering artifacts?	1M	CO2	1	
	v. What is Pragmatic planning?	1M	CO3	1	
	vi What is process automation?	1M	CO3	1	
	vii. What are the fundamental sets of management metrics?	1M	CO4	1	
	viii. Can you identify the task of Metrics automation?	1M	CO4	1	
	ix. What is demonstration milestone?	1M	CO5	1	
	x. Define stand-alone test.	1M	CO5	1	
Q.2(A)	Discuss the performance of conventional software management.	10M	CO1	6	
	OR	"			
Q.2(B)	How to estimate cost in software economics? Explain the three general of software economics	tion 10M	CO1	1	
Q.3(A) With a neat table explain in detail the general status of plans, requirements and products across the major milestones.					
	OR				
Q.3(B)	Draw and explain the artifact sequences across the software developm life cycle.	10M	CO2	2	
Q.4(A)	Give an overview of the artifact sets. Discuss in detail about the articaptured in engineering sets.	fact 10M	CO3	1	
	OR				
Q.4(B)	Discuss the iterative breakdown structure issues.	10M	CO3	6	
Q.5(A)	Illustrate in detail next generation software economics.	10M	CO4	2	
	OR				
Q.5(B)	Discuss in detail seven core metrics in software project management	10M	CO4	6	
Q.6(A)	Elaborate in details about common subsystem product overview v suitable examples.	vith 10M	CO5	6	
	OR				
Q.6(B)	Construct the CCPDS-R incremental design process with suita examples.	able 10M	CO5	6	
	*** END***				

Hall Ticket No:											Question Paper Code: 14CSU411
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(UGC-AUTONOMOUS)

B.Tech IV Year II Semester (R14) Regular & Supplementary End Semester Examinations – July 2021 CLOUD COMPUTING

(CSE)

Time: 3Hrs

Max Marks: 60

Q.No		Marks	СО	BL		
Q.1	i. Define cloud computing.	1M	CO1	1		
	ii. Mention the goals of distributed computing.	1M	CO1	1		
	iii. What are the properties of Service Oriented Architecture(SOA)?	1M	CO2	1		
	iv What is Cloud data center?	1M	CO2	1		
	v. What is the need for federation in cloud?	1M	CO3	1		
	vi How do you protect privacy information in cloud?	1M	CO3	1		
	vii. What is distributed management task force (DMTF)?	1M	CO4	1		
	viii. Give the list of standards for security service in cloud.	1M	CO4	1		
	ix. What do mean by Virtualization?	1M	CO5	1		
	x. What is the advantage of Amazon DB?	1M	CO5	1		
Q.2(A)	Explain in detail about SOA overview with a neat diagram.	10M	CO1	2		
	OR					
Q.2(B)	What are the possibilities for designing a Grid computing system? Explain detail.	in 10M	CO1	1		
Q.3(A)	Explain about the implementation issues and maturity models in SAAS in detail. 10M					
	OR	11				
Q.3(B)	i) Explain about Cloud Data center in detail.	5M	CO2	2		
	ii) Explain briefly about building of cloud networks.	5M	CO2			
Q.4(A)	Investigate the security challenges of federation based cloud.	10M	CO3	2		
	OR					
Q.4(B)	Explain in detail about Federation identity management in detail.	10M	CO3	2		
Q.5(A)	Explain about the Mobile operating systems.	10M	CO4	2		
	OR					
Q.5(B)	Analyze the Mobile platform virtualization with appropriate case study.	10M	CO4	4		
Q.6(A)	i) Explain in detail about Amazon simple DB.	5M	CO5	2		
	ii) Explain in detail on Amazon S3.	5M	CO5			
	OR					
Q.6(B)	Explain about the Microsoft Azure services in detail.	10M	CO5	2		
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Hall Ticket No: Question Page 1	aper Code: 14CSIT411/14IT412
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(UGC-AUTONOMOUS)

B.Tech IV Year II Semester (R14) Regular & Supplementary End Semester Examinations – July 2021 CLOUD COMPUTING

(CSIT& IT)

Time: 3Hrs

Max Marks: 60

Q.No		Marks	СО	BL	
Q.1	i. Differentiate between parallel and distributed computing paradigms.	1M	CO1	1	
	ii. List out the key characteristics of cloud computing	1M	CO1	1	
	iii. Write a short note on desired features of a cloud.	1M	CO2	2	
	iv Explain any three services offered by cloud.	1M	CO2	2	
	v. What are the benefits of federation in the cloud?	1M	CO3	1	
	vi List out the challenges of cloud security?	1M	CO3	2	
	vii. What are the standards for messaging in cloud computing?	1M	CO4	1	
	viii. Explain Virtual administration in cloud.	1M	CO4	2	
	ix. What is Server Virtualization?	1M	CO5	1	
	x. What operating systems run on virtual servers?	1M	CO5	1	
Q.2(A)	i) Describe the features, challenges and risks in cloud computing	5M	CO1	2	
	ii) Explain the functions and types of Hypervisors.	5M	CO1	2	
	OR				
Q.2(B)	Explain in detail about the evolution of cloud computing.	10M	CO1	2	
Q.3(A) Describe the steps involved in SOA towards cloud computing.					
	OR				
Q.3(B)	Define SOA. Explain the basic approach to a data center based SOA.	10M	CO2	2	
Q.4(A)	Explain in detail about the federation in the cloud?	10M	CO3	2	
	OR	11.01			
Q.4(B)	Write about the techniques proposed to strengthen Security in SaaS.	10M	CO3	1	
Q.5(A)	Explain the concept of mobile platform virtualization in cloud computing.	10M	CO4	2	
	OR				
Q.5(B)	Describe the concept of end user access to cloud computing for you facebook and Zoho application.	utube, 10M	CO4	2	
Q.6(A)	Explain in detail about Google App Engine and Google web tool kit.	10M	CO5	2	
	OR				
Q.6(B)	i) Write about the about Amazon Simple Storage Service.	5M	CO5	2	
	ii) Describe transaction processing and NoSQL databases.	5M	CO5	2	
	*** END***				

Hall Ticket No:											Question Paper Code: 14CE410
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(UGC-AUTONOMOUS)

B.Tech IV Year II Semester (R14) Regular & Supplementary End Semester Examinations – JULY 2021

ENVIRONMENTAL IMPACT ASSESSMENT

(Open Elective IV - Common to EEE, ME, ECE, CSE, CSIT & IT)

Time: 3Hrs

Max Marks: 60

Attempt all the questions. All parts of the question must be answered in one place only.

All parts of Q.no 1 are compulsory. In Q.no 2 to 6 answer either A or B only

	Marks	СО	BL
i. Recall the word Environmental base map.	1M	CO1	1
ii. Define pollution.	1M	CO1	1
iii. Define land use.	1M	CO2	1
iv Illustrate the term delineation.	1M	CO2	2
v. What do you mean by vegetation and its uses?	1M	CO3	1
vi Write the categories of land use in a map.	1M	CO3	1
vii. Define audit protocol.	1M	CO4	1
viii. What do you mean by onsite activity?	1M	CO4	1
ix. List any two causes of air pollution.	1M	CO5	1
x. What is post audit?	1M	CO5	1
Briefly discuss in detail about the preparation of environmental base	10M	CO1	6
map.			
OR			
• • • • • • • • • • • • • • • • • • • •	10M	CO1	2
in detail.			
Describe the methodology adopted for the study of impacts on soil and	10M	CO2	2
groundwater.			
OR			
	10M	CO2	2
Biological environment.			
Describe the concept of assessing the impact assessment on vegetation	10M	CO3	2
and wild Life in detail			
OR			
Discuss in detail the various causes and effects of deforestation.	10M	CO3	6
Summarize the various objectives of Environmental audit.	10M	CO4	2
OR			
List the types of Environmental audit, explain any one in detail.	10M	CO4	1
Summarize in detail the various Environmental Impacts of dairy industry	10M	CO5	2
OR			
Describe in detail the various Environmental Impacts of paper industry	10M	CO5	2
in detail.			
	iii. Define pollution. iii. Define land use. iv Illustrate the term delineation. v. What do you mean by vegetation and its uses? vi Write the categories of land use in a map. vii. Define audit protocol. viii. What do you mean by onsite activity? ix. List any two causes of air pollution. x. What is post audit? Briefly discuss in detail about the preparation of environmental base map. OR Explain the environmental impact assessment by using any one method in detail. Describe the methodology adopted for the study of impacts on soil and groundwater. OR Explain the procedure used for the Environmental Impact assessment of Biological environment. Describe the concept of assessing the impact assessment on vegetation and wild Life in detail OR Discuss in detail the various causes and effects of deforestation. Summarize the various objectives of Environmental audit. OR List the types of Environmental audit, explain any one in detail. Summarize in detail the various Environmental Impacts of paper industry in detail. OR Describe in detail the various Environmental Impacts of paper industry in detail.	i. Recall the word Environmental base map. ii. Define pollution. iii. Define land use. iv Illustrate the term delineation. v. What do you mean by vegetation and its uses? iv Write the categories of land use in a map. vii. Define audit protocol. viii. What do you mean by onsite activity? ix. List any two causes of air pollution. x. What is post audit? Briefly discuss in detail about the preparation of environmental base map. OR Explain the environmental impact assessment by using any one method in detail. Describe the methodology adopted for the study of impacts on soil and groundwater. OR Explain the procedure used for the Environmental Impact assessment of Biological environment. Describe the concept of assessing the impact assessment on vegetation and wild Life in detail OR Discuss in detail the various causes and effects of deforestation. Summarize the various objectives of Environmental audit. OR List the types of Environmental audit, explain any one in detail. OR Describe in detail the various Environmental Impacts of paper industry in detail. OR Describe in detail the various Environmental Impacts of paper industry in detail.	i. Recall the word Environmental base map. ii. Define pollution. iii. Define land use. iv Illustrate the term delineation. v. What do you mean by vegetation and its uses? vi Write the categories of land use in a map. viii. Define audit protocol. viii. What do you mean by onsite activity? viiii. What is post audit? viiiii. What is post audit? viiii. What is post audit? viiii. Ust any two causes of air pollution. viiii. OR Explain the environmental impact assessment by using any one method in detail. Describe the methodology adopted for the study of impacts on soil and groundwater. OR Explain the procedure used for the Environmental Impact assessment of Biological environment. Describe the concept of assessing the impact assessment on vegetation and wild Life in detail OR Discuss in detail the various causes and effects of deforestation. Summarize the various objectives of Environmental audit. OR List the types of Environmental audit, explain any one in detail. OR Describe in detail the various Environmental Impacts of dairy industry in detail. OR Describe in detail the various Environmental Impacts of paper industry in detail. OR

Hall Ticket No: Question Paper Code: 14CE412

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

(UGC-AUTONOMOUS)

B.Tech IV Year II Semester (R14) Regular & Supplementary End Semester Examinations – JULY 2021

GROUND IMPROVEMENT TECHNIQUES

(Open Elective IV - Common to EEE, ME, ECE, CSE, CSIT & IT)

Time: 3Hrs Max Marks: 60

Attempt all the questions. All parts of the question must be answered in one place only.

All parts of Q.no 1 are compulsory. In Q.no 2 to 6 answer either A or B only

Q.No			СО	BL
Q.1	i. List the objectives of Ground improvement Techniques?	1M	CO1	1
	ii. What are the various methods of Grouting?	1M	CO1	1
	iii. What are the various methods of in situ densification?	1M	CO2	1
	iv State the functions of vertical drain used in preloading technique.	1M	CO2	1
	v. What are the various methods of soil stabilization?	1M	CO3	1
	vi What are the various processes involved behind lime Stabilization?	1M	CO3	1
	vii. List the applications of reinforced earth.	1M	CO4	1
	viii. Write the applications of Geo membrane.	1M	CO4	1
	ix. List out any two artificial geotextiles.	1M	CO5	1
	x. Write a short note on expansive soil.	1M	CO5	1
Q.2(A)	Explain in brief the principle, equipment used, installation and operation and precaution adopted in electro-osmotic dewatering. OR	10M	CO1	2
Q.2(B)	What are different grout materials used in Grouting Process? Describe any one method of grouting technique.	10M	CO1	1
Q.3(A)	What are the in — situ densification methods in granular soils? Explain Dynamic compaction method. OR	10M	CO2	1
Q.3(B)	i. What is preloading? Write different methods of Pre loading.	5M	CO2	1
٧.٥(٥/	ii. Write the advantages and disadvantages of preloading?	5M		
Q.4(A)	Describe in brief Cement stabilization. What are the factors that affect the stability of soil Cement	10M	CO3	2
	OR			
Q.4(B)	Write short note on bituminous stabilization. Describe the factors affecting bituminous stabilization.	10M	CO3	1
Q.5(A)	What do you mean by reinforced Earth? What are the benefits and applications of Reinforced Earth? OR	10M	CO4	1
Q.5(B)	Explain .various types of geosynthetics along with their applications and functions.	10M	CO4	2
Q.6(A)	What is swelling pressure? Explain the various methods of determination of swelling Pressure in laboratory. OR	10M	CO5	1
Q.6(B)	What is Under reamed pile? Explain how it counteracts the swelling nature of soil?	10M	CO5	1
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Hall Ticket No: Question Paper Code: 14	4ME412
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(UGC-AUTONOMOUS)

B.Tech IV Year II Semester (R14) Regular & Supplementary End Semester Examinations – JULY 2021 ENTREPRENEURSHIP

(Open Elective IV - Common to CE, EEE, ECE, CSE, CSIT & IT)

Time: 3Hrs

Max Marks: 60

Attempt all the questions. All parts of the question must be answered in one place only.

All parts of Q.no 1 are compulsory. In Q.no 2 to 6 answer either A or B only

Q.No			Marks	СО	BL
Q.1	i,	State Entrepreneur.	1M	CO1	1
	ii.	Enumerate the entrepreneurial decision process.	1M	CO1	2
	iii.	Write two functions manager in organization.	1M	CO2	1
	iv	What are the problems occurred when a plant is breakdown?	1M	CO2	1
	V.:	List any three material handling equipments in plants.	1M	CO3	1
	vi	Define the term Quality.	1M	CO3	1
	vii.	Expand SWOT Analysis.	1M	CO4	2
	viii.	State inventory control.	1M	CO4	1
	ix.	Sketch the ABC analysis in an inventory.	1M	CO5	2
	x.	List the scenarios most likely to win business.	1M	CO5	1
Q.2(A)	Diffe	rentiate between Entrepreneur and Manager in an organization. OR	10M	CO1	2
Q.2(B)		e briefly about women entrepreneurship and its emergence for lopment of nation.	10M	CO1	1
Q.3(A)		ribe the process of writing business plan with example. OR	10M	CO2	2
Q.3(B)	Expla	in the sources of Idea generation.	10M	CO2	2
Q.4(A)	Discu	iss briefly about angel investment process. OR	10M	соз	4
Q.4(B)	Desc	ribe various growth strategy of new venture expansion.	10M	CO3	3
Q.5(A)	Expla	in various production techniques in manufacturing industries. OR	10M	CO4	2
Q.5(B)	Diffe	rentiate between product and process layout with example.	10M	CO4	4
Q.6(A)	Discu	iss about inventory control process with suitable example. OR	10M	CO5	4
Q.6(B)	Desc	ribe the channels of distribution.	10M	CO5	2

Hall Ticket No:											Question Paper Code: 14ME414
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(UGC-AUTONOMOUS)

B.Tech IV Year II Semester (R14) Regular & Supplementary End Semester Examinations – JULY 2021
TOTAL QUALITY MANAGEMENT

(Open Elective IV - Common to CE, EEE, ECE, CSE, CSIT & IT)

Time: 3Hrs

Max Marks: 60

Attempt all the questions. All parts of the question must be answered in one place only.

All parts of Q.no 1 are compulsory. In Q.no 2 to 6 answer either A or B only

Marks		Marks	СО	BL
Q.1	i. Explain Quality as expressed by Juran.	1M	CO1	2
	ii. What is the importance of the subject quality control?	1M	CO1	1
	iii. What are quality charts?	1M	CO2	1
	iv What is KAIZEN philosophy?	1M	CO2	1
	v. What is KANBAN philosophy?	1M	CO3	1
	vi Why quality circles is popular in many industries.	1M	CO3	1
	vii. Mention in 2 points how benchmarking helps us to improve?	1M	CO4	2
	viii. What is supply chain management?	1M	CO4	1
	ix. What is the importance of quality standards?	1M	CO5	1
	x. What do you understand by six sigma?	1M	CO5	1
Q.2(A)	Discuss Kaoru Ishikawa diagram in a production system. OR	10M	CO1	6
Q.2(B)	Discuss Juran's philosophies for quality improvement	10M	CO1	6
Q.3(A)	.3(A) What are Quality tools and explain any three. OR		CO2	1
Q.3(B)	How can employee motivation and empowerment improve the productive of an organization? Mention 4 points to be kept in mind while selecting supplier	•	CO2	1
Q.4(A)	Discuss Poka Yoke principle in details. OR	10M	CO3	6
Q.4(B)	Explain 5 S philosophy.	10M	CO3	2
Q.5(A)	How business process re-engineering works? Why do we need BPR? Expl. with a suitable example. OR	ain 10M	CO4	1
Q.5(B)	What are the various costs involved in carrying out quality functions in Organization? Explain.	an 10M	CO4	1
Q.6(A)	Discuss DMADV approach of six sigma. OR	10M	CO5	6
Q.6(B)	Explain characteristics of a good auditor? What are the differences betwee black belt and green belt?	en 10M	CO5	2

Hall Ticket No:

(UGC-AUTONOMOUS)

B.Tech IV Year II Semester (R14) Regular & Supplementary End Semester Examinations → ¥uly 202 ♣ 11

CLOUD COMPUTING

(Open Elective – Common to CE, EEE, ME, ECE)

Time: 3Hrs

Attempt all the questions. All parts of the question must be answered in one place only.

All parts of Q.no 1 are compulsory. In Q.no 2 to 6 answer either Part-A or B only

Max Marks: 60

Q.No		80 2 1 1 V (4)	Marks	CO	BL
Q.1	i,	What is grid computing?	1M	CO1	-
	ii. Different between private, public and hybrid cloud.		1M	CO1	1.
	iii.	Expand MSP and What is the use of MSP?	1M	CO2	2
	iv	Give an example for Public Cloud.	1M	CO2	1
	v. What is the need for federation in cloud?		1M	CO3	1
	vi What is the goal of trusted federation?		1M	CO3	1
	vii. Is security is needed to provide Software as service?		1M _	CO4	1.
	viii. Define Cloud Security.		1M	CO4_	- 1
	ix.	List out the Amazon S3 merits and demerits.	1M	CO5_	1
	x.	What is the use of Microsoft sharepoint?	1M	CO5	1
Q.2(A)	Com	pare and contrast Cloud Computing & Grid Computing.	10M	CO1×	- 4
		OR	1	D:	
Q.2(B)	What are the possibilities for designing a Grid computing system? Explain in detail.		10M	CO1	1 1
Q.3(A)	Explain in detail about the major services provided by Cloud Computing.			CO2.	2
		OR	511000		
Q.3(B)	Explain about the basic approach to deploy the SOA based Cloud data center.		10M	CO2-	- 2
Q.4(A)	What is Federation? Discuss about four basic types of federation in cloud.		10M	CO3;	> 1
		OR			
Q.4(B)	.4(B) Discuss few security challenges in cloud.		10M	CO3	• 6
Q.5(A)	Demonstrate about mobile operating systems for smart phones in detail. 10M		10M)	CO4	7 2
		OR			
Q.5(B)	Discuss in detail about Open Cloud Consortium (OCC).		10M	:CO4	19 16
Q.6(A)	Explain about the advantages of Google web tool kit in detail. 10M		10M	:CO5	M 2
		OR			
Q.6(B)	Diffe	rentiate between Amazon EC2 and Amazon DB service.	10MB)	CO5	E A
		*** END***			

Hall Ticket No:	- -		Question Paper Code: 14CSU412
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(UGC-AUTONOMOUS)

B.Tech IV Year II Semester (R14) Regular & Supplementary End Semester Examinations – July2021 SOFTWARE PROJECT MANAGEMENT

(Open Elective – Common to CE, EEE, ME, ECE)

Time: 3Hrs

Max Marks: 60

Q.No			Marks	СО	BL
Q.1	i. State the purpose of deployment view.		1M	CO1	1
	ii. How do measure size of software?		1M	CO1	1
	iii. Define status assessment.		1M	CO2	1
	iv What is meant by checkpoints?		1M	CO2	1
	v. Outline the first level WBS elements.		1M	CO3	2
	vi Define software change orders.		1M	CO3	1
	vii.	List down the perspectives of work and progress.	1M	CO4	1
	viii.	Define Domain experience.	1M	CO4	1
	ix.	Define IPDR demonstration.	1M	CO5	1
	х.	Outline the parameters of project process.	1M	CO5	2
Q.2(A)	List a	and explain the principles of modern software management.	10M	CO1	2
		OR			
Q.2(B)	Explain the waterfall model with neat diagram.			CO1	2
Q.3(A)	With a neat table explain in detail the general status of plans, requirements, and products across the major milestones.			CO2	1
		OR			
Q.3(B)) What is a workflow? Explain about software process workflows. 10N			CO2	1
Q.4(A)	Explain the responsibilities of the four component teams in a default line-of-business organization.			CO3	2
OR					
Q.4(B)	Discuss the Line-of-Business Organizations.		10M	CO3	6
Q.5(A)	Expla	nin in detail about quality indicators.	10M	CO4	2
		OR			
Q.5(B)	Elaborate the pragmatic Software Metrics.		10M	CO4	6
Q.6(A)	Expla	nin about software architecture skeleton.	10M	CO5	2
		OR			
Q.6(B)	Desc	ribe briefly CCPDS-R designing process	10M	CO5	2
		*** END***			

Hall Ticket No: Question Paper Code: 14EC

(UGC-AUTONOMOUS)

B.Tech IV Year II Semester (R14) Regular& Supplementary End Semester Examinations –July2021 **IOT NETWORKS**

(Open Elective – Common to CE, EEE, ME, CSE, CSIT, IT)

Time: 3Hrs

Max Marks: 60

Q.No		Marks	СО	
Q.1	i. Note any three functions of IoT.	1M	CO1	1
	ii. What smart grid technology?	1M	CO1	1
	iii. List out the advantages of IoT based home Automation.	1M	CO2	1
	iv Mention the transport layer protocols.	1M	CO2	2
	v. Expand SMTP.	1M	CO3	2
	vi Write the advantages in star topology.		CO3	1
	vii. Note the applications of Atmega328 microcontrollers.		CO4	1
	viii. Write the features of Galileo?		CO4	1
	ix. Mention the purpose of level shifter.		CO5	2
	x. Discuss about scheduling process.	1M	CO5	2
Q.2(A)	Explain the various components of smart city and mention the role of IoT in making smart city.			2
	OR	· ·		
Q.2(B)	Write short notes on 1. Applications of IoT 2. Comparison of IoT and M2M?			1
Q.3(A)	Outline the SNMP protocol with neat sketches 10M			2
	OR			
Q.3(B)	B) Explain about XML-RPC with relevant diagrams. 10M			2
Q.4(A)) Discuss about the design principles used in IoT architecture 10M			6
	OR	111		
Q.4(B)	(B) Describe the European Telecommunication Standard Architecture with neat sketches.			2
Q.5(A)	What is Ring topology? Explain. And also mention their merits and demerits 1		CO4	1
	OR	*		
Q.5(B)	Demonstrate the mesh topology with neat sketches and also write their merits and demerits.		CO4	2
Q.6(A)	Write about the features of ATmega328.		CO5	1
	OR			
Q.6(B)	3) Summarize any one of the application of Galileo with an example. 10M			2
	*** END***			