

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE
(UGC-AUTONOMOUS)

B.Tech IV Year II Semester (R14) Regular & Supplementary End Semester Examinations – SEP 2020

GROUND IMPROVEMENT TECHNIQUES

(OE-IV- Common to EEE,ME,ECE & CSE)

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 ground improvement? | 1M |
| | ii. | Write the applications of grouting. | 1M |
| | iii. | What is vibro-compaction? | 1M |
| | iv. | What do you understand by preloading? | 1M |
| | v. | Name any three industrial wastes used in stabilization of soils. | 1M |
| | vi. | What is geo-grid ? | 1M |
| | vii. | Name the components of reinforced earth. | 1M |
| | viii. | What are the applications of geo-textiles? | 1M |
| | ix. | Define expansive soil? | 1M |
| | x. | Write the methods of determination of swell pressure. | 1M |
-
- | | | |
|--------|--|-----|
| Q.2(A) | Explain in brief the various methods of ground improvement. | 10M |
| | OR | |
| Q.2(B) | Explain the electro osmosis method of dewatering for ground improvement. | 10M |
-
- | | | |
|--------|---|-----|
| Q.3(A) | Explain various methods of in situ densification of cohesive soils? | 10M |
| | OR | |
| Q.3(B) | Explain impact at depth method of soil densification. | 10M |
-
- | | | |
|--------|---|-----|
| Q.4(A) | What do you understand by bituminous stabilization? | 10M |
| | OR | |
| Q.4(B) | Explain Chemical stabilization and its factors. | 10M |
-
- | | | |
|--------|---|-----|
| Q.5(A) | What are the design principles of reinforced earth wall? | 10M |
| | OR | |
| Q.5(B) | Explain different functions of geo-textiles with neat sketches. | 10M |
-
- | | | |
|--------|---|-----|
| Q.6(A) | Discuss the various foundation techniques adopted in expansive soils. | 10M |
| | OR | |
| Q.6(B) | Explain the preventive measures for expansive soils | 10M |

END

Hall Ticket No:

Question Paper Code: 14ME412

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE
(UGC-AUTONOMOUS)

B.Tech IV Year II Semester (R14) Regular & Supplementary End Semester Examinations – Sep 2020

ENTREPRENEURSHIP

(Open Elective IV - ECE)

Max Marks: 60

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

- Q.1
- How entrepreneurship plays vital role on nation development? 1M
 - What do you understand ethics of entrepreneurship? 1M
 - How new ideas are generated? 1M
 - What are the basic forms of organizational plan? 1M
 - What are types of Ecommerce models? 1M
 - Why business plan is very important for entrepreneur process? 1M
 - Which are the documents treated as record? 1M
 - Why plant location choosing is crucial for entrepreneur? 1M
 - What is an inventory? 1M
 - How do you use the ABC analysis for inventory control? 1M
-
- Q.2(A) Discuss about women entrepreneurship and its emergence. 10M
OR
- Q.2(B) Discuss the social entrepreneurship and entrepreneurs. 10M
-
- Q.3(A) Illustrate creative problem-solving process. 10M
OR
- Q.3(B) Discuss various sources of ideas for new ventures. 10M
-
- Q.4(A) Discuss various growth strategy of new venture expansion. 10M
OR
- Q.4(B) Explain about record keeping and its importance in the entrepreneurship. 10M
-
- Q.5(A) Discuss the marketing management philosophies. 10M
OR
- Q.5(B) Explain product and process layout. 10M
-
- Q.6(A) Describe the process of product pricing. 10M
OR
- Q.6(B) Explain ABC and VED analysis. 10M

END

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

(UGC-AUTONOMOUS)

B.Tech IV Year II Semester (R14) Regular & Supplementary End Semester Examinations – SEP 2020**ENTREPRENEURSHIP**

(Open Elective – IV – Common to CE, EEE & CSE)

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.	How entrepreneurship plays vital role on nation development?	1M
	ii.	What do you know about social entrepreneur?	1M
	iii.	Why few business plans fail?	1M
	iv.	What are the basic forms of organizational plan?	1M
	v.	How do you classify the recruitment process?	1M
	vi.	How do you classify the partners of equity financing?	1M
	vii.	What are the problems occurred in plant breakdown?	1M
	viii.	What are the types of plant layout?	1M
	ix.	List various quality control techniques.	1M
	x.	Why market segmentation is important?	1M
Q.2(A) Discuss various key elements in entrepreneurship.			10M
OR			
Q.2(B) Discuss the common traits of successful Entrepreneur			10M
Q.3(A) Discuss the process of writing business plan.			10M
OR			
Q.3(B) Discuss methods available for generating new venture ideas.			10M
Q.4(A) Write short notes on 1) Ecommerce 2) internet advertising.			10M
OR			
Q.4(B) Explain about record keeping and its importance in the entrepreneurship.			10M
Q.5(A) Explain product and process layout.			10M
OR			
Q.5(B) Discuss various factors to be considered for selection of plant location.			10M
Q.6(A) Explain material handling system and its importance.			10M
OR			
Q.6(B) Discuss about the inventory control process.			10M

*****END*****

--	--	--	--	--	--	--	--	--	--

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE
(UGC-AUTONOMOUS)

B.Tech IV Year II Semester (R14) Regular & Supplementary End Semester Examinations – May 2020

TOTAL QUALITY MANAGEMENT

(OE-IV – Common to CE, EEE, ECE & CSE)

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 Quality as expressed by Juran. | 1M |
| | ii. | Which management guru gave the 'zero defect' philosophy? | 1M |
| | iii. | What is an affinity diagram? | 1M |
| | iv. | Outline three reasons for continuous improvement. | 1M |
| | v. | Why quality circle is popular in many industries? | 1M |
| | vi. | What is Poka-Yoke? | 1M |
| | vii. | What are the various costs of quality? | 1M |
| | viii. | What is supplier teaming? | 1M |
| | ix. | What is audit? What are the benefits of third party audits? | 1M |
| | x. | What do you understand by black belt? | 1M |
| <hr/> | | | |
| Q.2(A) | | Explain the Juran's quality principles in details | 10M |
| | | OR | |
| Q.2(B) | | Explain the Kaoru Ishikawa diagram in a production system. | 10M |
| <hr/> | | | |
| Q.3(A) | | Relate the merits and demerits of quality circles. | 10M |
| | | OR | |
| Q.3(B) | | List 7 Quality control tools and explain any three of your choice. | 10M |
| <hr/> | | | |
| Q.4(A) | | Explain KANBAN philosophy in details. Take a simple real life example to support your logic | 10M |
| | | OR | |
| Q.4(B) | | Bench marking is essential in a business. Explain the merits and demerits. | 10M |
| <hr/> | | | |
| Q.5(A) | | Select any products which has continuous improvements and excel in the business. | 10M |
| | | OR | |
| Q.5(B) | | How do you understand the supply chain management? Give a real-life example of supply chain management. | 10M |
| <hr/> | | | |
| Q.6(A) | | What is six sigma? How to implement it in an organization? | 10M |
| | | OR | |
| Q.6(B) | | Explain in detail the concept of 5S and how it will affect business. | 10M |

END

--	--	--	--	--	--	--	--	--	--

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

(UGC-AUTONOMOUS)

B.Tech IV Year II Semester (R14) Regular & Supplementary End Semester Examinations – SEP 2020

IOT NETWORKS

(OE-IV – Common to CE, EEE, ME & CSE)

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. List some of the applications of Sensor. | 1M |
| | ii. What is meant by Artificial Intelligence? | 1M |
| | iii. What is mail transfer agent? | 1M |
| | iv. What are the features of FTP protocol? | 1M |
| | v. Expand CoAP. | 1M |
| | vi. What is data management? | 1M |
| | vii. Give some examples of LAN. | 1M |
| | viii. What is knowledge management? | 1M |
| | ix. What are the applications of Atmega328 microcontrollers? | 1M |
| | x. List some of the uses of Arduino uno. | 1M |
| <hr/> | | |
| Q.2(A) | What are the requirements of smart grid implementation? Explain in detail. | 10M |
| OR | | |
| Q.2(B) | Explain the working scenario of health monitoring system using IoT with proper example. | 10M |
| <hr/> | | |
| Q.3(A) | Illustrate web service addressing in detail. | 10M |
| OR | | |
| Q.3(B) | Explain in detail about description protocols in web services. | 10M |
| <hr/> | | |
| Q.4(A) | Elaborate the design principles in IoT architecture. | 10M |
| OR | | |
| Q.4(B) | Explain in detail about IoT reference model. | 10M |
| <hr/> | | |
| Q.5(A) | Discuss in detail about data management with suitable example. | 10M |
| OR | | |
| Q.5(B) | Illustrate mesh topology with necessary diagrams. Mention their merits and demerits. | 10M |
| <hr/> | | |
| Q.6(A) | Differentiate Arduino Uno with Galileo. | 10M |
| OR | | |
| Q.6(B) | Explain in detail about ATmega328 registers. | 10M |

END

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE
(UGC-AUTONOMOUS)

B.Tech IV Year II Semester (R14) Regular & Supplementary End Semester Examinations – SEP 2020

SOFTWARE PROJECT MANAGEMENT

(OE-IV – Common to CE, EEE, ME & ECE)

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. How do measure software size? | 1M |
| | ii. What are the ways of achieving better economics in software? | 1M |
| | iii. Distinguish between implementation set and deployment set. | 1M |
| | iv. How do you evaluate the completion of each of the four phases in software life cycle? | 1M |
| | v. List the benefits of matching people to roles. | 1M |
| | vi. What are the disadvantages of work break down structure? | 1M |
| | vii. Reasoning is required to interpret some of the situations correctly'. Justify your answer. | 1M |
| | viii. Distinguish between small-scale projects and large-scale projects. | 1M |
| | ix. What is mean by people factors? | 1M |
| | x. Define build integration test. | 1M |
| <hr/> | | |
| Q.2(A) | Discuss the principles of conventional software Engineering. | 10M |
| | OR | |
| Q.2(B) | Compare three levels of process along with its attributes. Also discuss the three dimensions of schedule improvement. | 10M |
| <hr/> | | |
| Q.3(A) | Draw and explain the artifact sequences across the software life-cycle. | 10M |
| | OR | |
| Q.3(B) | Differences between iterations and increments along with suitable diagrams. | 10M |
| <hr/> | | |
| Q.4(A) | Discuss the major critical concerns associated with the software workflows. | 10M |
| | OR | |
| Q.4(B) | List and explain the disadvantages of traditional work breakdown structures | 10M |
| <hr/> | | |
| Q.5(A) | Illustrate the Pragmatic software metrics and metrics automation. | 10M |
| | OR | |
| Q.5(B) | Explain the Best Practices Associated with software Management. | 10M |
| <hr/> | | |
| Q.6(A) | Write the purpose of concept definition (CD) and full scale development (FSD) in the project CCPDS-R. | 10M |
| | OR | |
| Q.6(B) | Describe about CCPDS-R incremental design process | 10M |

END

--	--	--	--	--	--	--	--	--	--

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE
(UGC-AUTONOMOUS)

B.Tech IV Year II Semester (R14) Regular & Supplementary End Semester Examinations – SEP 2020

CLOUD COMPUTING

((OE-IV- Common to CE, EEE, ME & ECE)

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. List the challenges for the cloud. | 1M |
| | ii. Give an example for hybrid Cloud. | 1M |
| | iii. Write the two benefits of Service oriented Architecture. | 1M |
| | iv. Define Service. | 1M |
| | v. List control mechanisms of Cloud Security. | 1M |
| | vi. What is privacy in cloud computing? | 1M |
| | vii. What is open cloud consortium? | 1M |
| | viii. Give example for Mobile Operating Systems. | 1M |
| | ix. List the advantage of Amazon EC2. | 1M |
| | x. Write the Microsoft dynamic CRM. | 1M |
-
- | | | |
|--------|--|-----|
| Q.2(A) | Discuss the Symmetric multi- processing and massively parallel processing systems. | 10M |
| | OR | |
| Q.2(B) | List and explain the limitations and the Key characteristics of cloud computing. | 10M |
-
- | | | |
|--------|--|-----|
| Q.3(A) | Explain the types of services provided by the cloud computing. | 10M |
| | OR | |
| Q.3(B) | Describe the SOA as step toward cloud computing. | 10M |
-
- | | | |
|--------|--|-----|
| Q.4(A) | Define Federation. Discuss about four basic types of federation. | 10M |
| | OR | |
| Q.4(B) | Categorize the control mechanism of Cloud Security. | 10M |
-
- | | | |
|--------|--|-----|
| Q.5(A) | Analyse about Mobile internet device usage in accessing the cloud services. | 10M |
| | OR | |
| Q.5(B) | Discuss in detail about mobile operating systems for smart phones with examples. | 10M |
-
- | | | |
|--------|--|-----|
| Q.6(A) | Elaborate the Google web tool kit. | 10M |
| | OR | |
| Q.6(B) | Elaborate the Amazon Cloud front and Amazon SQS. | 10M |

*****END*****