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| R-19 |
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Code: 19A38ET

IV B.Tech. II Semester Regular Examinations April 2023

Entrepreneurship Development

(Common to CE & CSE)

Max. Marks: 70

Time: 3 Hours

Answer any five full questions by choosing one question from each unit (5x14 = 70 Marks)

Marks CO BL

UNIT-I

1. Define the term entrepreneur and explain the characteristics of an Entrepreneur? 14M C1 L1

OR

2. What are the factors that affect the entrepreneurial growth in the country? Discuss in detail? 14M C1 L1

UNIT-II

3. What are the major motives influencing the entrepreneur and explain them? 14M C2 L1

OR

4. What are the Entrepreneurship Development Programmes and explain its need and objectives? 14M C2 L2

UNIT-III

5. Define SSI? Explain the steps involved in setting up of business? 14M C3 L1

OR

6. Briefly discuss the system of Project Appraisals? 14M C3 L2

UNIT-IV

7. What is Working Capital? Discuss the importance and sources of working capital of SSIs? 14M C4 L2

OR

8. What is Break Even Point? Explain in detail? 14M C4 L1

UNIT-V

9. What is small scale industry sickness? Explain the causes and consequences? 14M C5 L2

OR

10. What is the government policy with regarding Small Scale Industry? Discuss? 14M C5 L2

END

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| Hall Ticket Number : | | | | | | | | | | |
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| R-19 |
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Code: 19A18CT

IV B.Tech. II Semester Regular Examinations April 2023

Remote Sensing and GIS

(Civil Engineering)

Max. Marks: 70

Time: 3 Hours

Answer any five full questions by choosing one question from each unit (5x14 = 70 Marks)

| | Marks | CO | BL |
|---|-------|----|----|
| UNIT-I | | | |
| 1. Derive the expression for Tilt displacement with a schematic diagram. | 14M | 1 | |
| OR | | | |
| 2. The scale of an aerial photograph is 1cm = 100m. The photograph size is 20cm x 20cm. Determine the number of photographs required to cover an area | 14M | 1 | |
| UNIT-II | | | |
| 3. Explain the process of interaction of Electro Magnetic spectrum with earth surface. | 14M | 2 | |
| OR | | | |
| 4. Examine the Basic radiation laws | 14M | 2 | |
| UNIT-III | | | |
| 5. a) Explain the components of GIS | 7M | 3 | |
| b) Explain the fundamental operations of GIS | 7M | 3 | |
| OR | | | |
| 6. Explain the concepts of Layer based GIS and feature based GIS | 14M | 3 | |
| UNIT-IV | | | |
| 7. Examine the features of Integrated analysis of the spatial and attribute data | 14M | 4 | |
| OR | | | |
| 8. Differentiate the CAM and VAM method of GIS spatial analysis | 14M | 4 | |
| UNIT-V | | | |
| 9. Elaborate on Applications of RS and GIS in Land use and Land cover in water resources | 14M | 5 | |
| OR | | | |
| 10. Formulate Applications of RS and GIS in Reservoir sedimentation and Fluvial Geomorphology | 14M | 5 | |

END

Hall Ticket Number :

R-19

Code: 19A38GT

IV B.Tech. II Semester Regular Examinations April 2023

Total Quality Management

(Civil Engineering)

Max. Marks: 70

Time: 3 Hours

Answer any five full questions by choosing one question from each unit (5x14 = 70 Marks)

| | Marks | CO | BL |
|--|-------|----|----|
| UNIT-I | | | |
| 1. State the basic concepts of 'TQM'. Discuss the importance of 'Quality' in manufacturing and service systems. | 14M | 1 | L2 |
| OR | | | |
| 2. What are typical 'Cost bases'? Explain in detail about the Primary categories of Quality Cost. | 14M | 1 | L1 |
| UNIT-II | | | |
| 3. Explain Deming's Contribution and Principles for quality management in organizations. | 14M | 2 | L3 |
| OR | | | |
| 4. Discuss the contribution of Quality gurus to Total quality Management. | 14M | 2 | L3 |
| UNIT-III | | | |
| 5. Discuss the techniques adopted to meet the satisfaction levels of customer. | 14M | 3 | L3 |
| OR | | | |
| 6. Write short note on: Supplier partnership, Partnering, supplier selection, supplier rating. | 14M | 3 | L2 |
| UNIT-IV | | | |
| 7. What are the key concepts of Six Sigma? Explain as how 'Ishikawa Fish bone diagrams' are applied as quality tools in firms. | 14M | 4 | L1 |
| OR | | | |
| 8. What is House of Quality? Explain the steps in building a house of quality with an example? | 14M | 4 | L1 |
| UNIT-V | | | |
| 9. Explain the significance of ISO 9000 standard in 'quality management'. | 14M | 5 | L3 |
| OR | | | |
| 10. Define quality system audit. Discuss in detail the different types of audit. | 14M | 5 | L2 |

END

Code: 19A18AT

IV B.Tech. II Semester Regular Examinations April 2023

Advanced Transportation Engineering

(Civil Engineering)

Max. Marks: 70

Time: 3 Hours

Answer any five full questions by choosing one question from each unit (5x14 = 70 Marks)

| | | Marks | CO | BL |
|-----------------|---|-------|----|----|
| UNIT-I | | | | |
| 1. | a) As adopted by Indian railways, Describe the classification of a Railway Track system. | 7M | 1 | L1 |
| | b) Discuss various components parts of a Permanent way with a neat sketch. | 7M | 1 | L2 |
| OR | | | | |
| 2. | a) Write short note on Tube Railways and High-speed track system | 7M | 1 | L1 |
| | b) What are the factors to be considered for selection of a Railway Alignment? | 7M | 1 | L2 |
| UNIT-II | | | | |
| 3. | a) Calculate the maximum permissible speed on a curve of a high speed BG track with a degree of the curve = 10; superelevation of 80mm, length of transition curve = 120m and maximum sanctioned speed likely to be maintained for the section being 160kmph. | 8M | 2 | L4 |
| | b) What are the requirements and functions of Ballast? | 6M | 2 | L5 |
| OR | | | | |
| 4. | a) What are various Gradients adopted in Railways? Explain about Grade Compensation | 7M | 2 | L4 |
| | b) Why is it desirable to maintain uniformity of gauges for a railway track? | 7M | 2 | L5 |
| UNIT-III | | | | |
| 5. | a) Detail the classification of signals according to their locations in station yards along with suitable sketches. | 7M | 3 | L1 |
| | b) Explain the various causes for rail accidents and their corresponding remedial measures. | 7M | 3 | L1 |
| OR | | | | |
| 6. | a) Explain in detail about the points and signals. | 8M | 3 | L1 |
| | b) Write a short note on marshalling yard. | 6M | 3 | L1 |
| UNIT-IV | | | | |
| 7. | a) Classify the tunnels according to their shape and size. Explain with any two of them with suitable sketch. | 8M | 4 | L2 |
| | b) Define shaft and give the advantages of a shaft. | 6M | 4 | L2 |
| OR | | | | |
| 8. | a) Explain any two methods of tunnelling. | 7M | 4 | L2 |
| | b) Briefly, classify the tunnels based on their purposes. | 7M | 4 | L2 |
| UNIT-V | | | | |
| 9. | a) Enumerate the factors which need to be kept in view, while selecting a suitable site for an airport | 7M | 5 | L1 |
| | b) For an Airport planning, What data is required to be collected? | 7M | 5 | L1 |
| OR | | | | |
| 10. | a) Explain the use of wind rose diagram with a neat sketch. | 7M | 5 | L1 |
| | b) Explain the various factors which affect the location of an exit taxiway. | 7M | 5 | L1 |

END