

MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

(Affiliated to JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD)

Gundlapochampally (H), Maisammaguda (V), Medchal (M), Medchal-Malkajgiri (Dist), Hyderabad

III B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS, NOVEMBER-2019Subject: **ENGINEERING ECONOMICS AND ACCOUNTANCY**Branch: **Common to CE, ME, MINING****Time: 3 hours****Max. Marks: 60****PART – A****Answer ALL questions of the following****5x2M=10 M**

1. What is 'law of demand'?
2. Write Cobb-Douglas Production function.
3. What do you mean by Cross Subsidization?
4. What are the methods and sources of raising finance?
5. Define Interest Coverage Ratio.

PART-B**Answer any FIVE questions of the following****5x10 M= 50M**

1. "Managerial economics is the study of how scarce resources are directed most efficiently to achieve managerial goals." Justify the statement and brief on need for demand analysis for business decision making.
2. a) What is Managerial Economics? Explain its focus areas.
b) How are costs classified? Explain any five important cost concepts useful for managerial decisions.
3. Write a note on the following:
a) Out of pocket Vs. Imputed costs. b) Explicit costs Vs. Implicit costs.
4. a) Explain the long-run cost analysis with graph.
b) Explain fixed cost, variable cost and marginal cost.
5. a) Consider the case of the company with the following two investment alternatives each costing Rs.9 lakhs. The details of the cash inflows are as follows:

Year	Rs in Lakhs Project A	Project B Rs in Lakhs
1	3	6
2	5	4
3	6	3

The cost of capital is 10% per year. Which project will you consider under NPV method?

6. a) Write few differences between Public Limited Company and Private Limited Company.
b) What are the different types of Business organizations?
7. Explain the following:
(a) Penetration pricing with suitable example.
(b) Payback Period Method.
8. Write short notes on any two of the following:
a) Debt- Equity ratio, Interest Coverage ratio.
b) Ratio analysis and its importance.
c) Main objectives of Accounting and its important functions.

Code No.: 52509

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III B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS, NOVEMBER-2019

Subject: MINE VENTILATION

Branch: MINING

Time: 3 hours

Max. Marks: 60

PART – A

Answer ALL questions of the following

5x2M=10 M

1. What is fire damp?
2. What is meant by geothermal gradient?
3. Write a short note on evasee
4. Differentiate homotropical system with Antitropical system
5. Explain briefly the purpose of ventilation survey.

PART-B

Answer any FIVE questions of the following

5x10 M= 50M

1. a) What are the different instruments used to detect Firedamp? Explain any one
b) Physiological effects of carbon monoxide
2. How does the direction of natural ventilation depend? Derive the NVP equation .
3. Three splits in parallel, of similar cross-section and same type of roadway surface, are respectively 400m, 500m, and 900m long. Calculate the quantity of air which would flow in each, if the total quantity is 300 m³/min.
4. What is an operating point of the fan? Draw the operating points for the fans when running in series and parallel.
5. a) Distinguish between forcing and exhaust fan.
b) Output control in fans.
6. a) Briefly explain about face ventilation.
b) What is meant by Ascensional ventilation system? Write its merits and demerits?
7. a) What s meant by Descensional ventilation system? Write its merits and demerits?
b) Explain various inputs required in ventilation planning.
8. a) Hardy Cross method
b) Describe, with a diagram, the construction and working of a vane Anemometer.

