FACULTY OF ENGINEERING

B.E. (Civil/EE/Inst/IT) IV – Semester (CBCS) (Suppl.) Examination,

Dec. / 2019 Jan. 2020

Subject: Managerial Economics and Accountancy

Time: 3 Hours   **Max.Marks: 70**

Note: Answer all questions from Part – A and any five questions from Part – B.

PART – A (10x2 = 20 Marks)

1	Explain risk and uncertainty.	2
2	Explain demand schedule.	2
3	Write about production function.	2
4	What is working capital?	2
5	Write the rules of accounting.	2
6	What is ratio analysis?	2
7	Explain about price demand.	2
8	Define monopoly.	2
9	What are subsidiary books?	2
10	Explain explicit cost and implicit cost.	2

PART – B (5x10 = 50 Marks)

11 a) Write any three fundamental concepts of managerial economics.   5
    b) Explain briefly the usefulness of managerial economics to engineers.   5

12 a) What is Internal economics of scale? Explain.   5
    b) Write about the features of perfect competition.   5

13 a) Write three conventions of Accounting.   6
    b) Write journal entries for the following transactions.   4
       1-2-2018   Vijay commenced business with capital Rs. 60,000
       2-2-2018   Cash withdrawn from Bank Rs. 10,000
       3-2-2018   Purchased goods from Rakesh Rs. 5,000
       4-2-2018   Sold goods for cash Rs. 2,000.

14 a) What are the assumptions of break-even analysis.   5
    b) Calculate P/V ratio, margin of safety and margin of safety ratio from the
       following information.   5
       Sales Rs. 6,00,000
       Fixed cost Rs. 1,80,000
       Variable cost Rs. 3,00,000

15 a) A project requiring an investment of Rs. 1,00,000, the expected profit after tax are as
       follows. Calculate profitability index.   5

Year	1	2	3	4	5
Rs.	16,000	20,000	25,000	27,000	22,000

b) A project investment of Rs. 50,000 are expected to generate net cash flows as under: 5

Year	1	2	3	4	5	6
Rs	10,000	12,000	18,000	25,000	8,000	4,000

Evaluate the project proposal under pay back period.

16 From the following Trial Balance of Mr. X as on 31-12-2010 prepare final accounts: 10

Particulars	Rs.	Particulars	Rs.
Plant & Machinery	78,000	Capital	1,00,000
Furniture	2,000	Sales	1,50,000
Purchases	60,000	Purchase returns	1,000
Sales returns	1,000	Discount received	5,000
Opening stock	30,000	Sundry creditors	44,000
Discount allowed	425		
Sundry debtors	45,000		
Salaries	8,000		
Wages	10,000		
Rent, rules and taxes	12,000		
Cash balance	53,575		
	3,00,000		3,00,000

Adjustments:

i)   Closing stock Rs. 35,000

ii) Depreciate plant and machinery and furniture by 10%.

17 a) What are the factors of determinants of demand? 5

b) Explain the law of supply and concept of equilibrium. 5

****

FACULTY OF ENGINEERING

B.E. (AICTE) (CE/EE/Inst./CSE) III – Semester (Main & Backlog) Examination, Dec. 2019 / Jan. 2020

Subject: Environmental Science

Time: 3 hours   Max. Marks: 70

Note: Answer all questions from Part-A. Answer any FIVE questions from Part-B.

PART – A (20 Marks)

1. What is the importance of Environmental science?

2. List the effect of deforestation on tribal people.

3. Draw the two channel energy flow in an ecosystem.

4. Draw the pond ecosystem depicting the various zones.

5. List the various bio geographical zones in India.

6. Describe Food chain with the help of an example.

7. List the various methods of disposing solid waste.

8. List the salient features of air act.

9. Define climate change and global warming.

10. List the types of disasters with examples.

PART – B (50 Marks)

11. (a) Discuss the various ill-effects of modern agriculture.   (5)

    (b) Discuss soil erosion and desertification. How does soil erosion impact desertification and fertility.   (5)

12. (a) Discuss the function of an ecosystem.   (5)

    (b) Discuss a desert ecosystem.   (5)

13. (a) Discuss the causes effects and control measures of water pollution.   (5)

    (b) Discuss the issues involved in the enforcement of environmental legislation.   (5)

14. (a) Discuss the causes, effects and control measures of threats to biodiversity.   (5)

    (b) Describe the global and national efforts to conserve biodiversity.   (5)

15. (a) Describe the causes, effects and control measures initiated for controlling Ozone layer depletion.   (5)

    (b) Describe the methodology for disaster management.   (5)

16. (a) What are man induced landslides? Describe with the help of an example.   (5)

    (b) What are producers, consumers and decomposers in an ecosystem? Explain their importance with the help of an example.   (5)

17. (a) Draw a neatly labeled sketch of a "Fabric Fitter".   (5)

    (b) What is a disaster? Explain various types of disaster with examples.   (5)

******