Reg. No. : 590 20 152 002

Name : Vrunda, M. G.

Fourth Semester M.Com. Degree Examination, June 2022

Elective – Finance

Paper II : CO 242 F — RISK MANAGEMENT AND DERIVATIVES

(2018 Admission Onwards)

Time : 3 Hours   Max. Marks : 75

SECTION – A

Answer **all** questions. Each question carries **2 marks**.

1. What is risk?

2. What is the main objective of risk management?

3. What is underlying asset?

4. What do you mean by pay off in forward contract?

5. What do you mean by Asian option?

6. What is Rho in option pricing?

7. What are Index futures?

8. What is Long hedge?

9. What is Warrants?

10. What is an initial margin in derivatives?   (10 × 2 = 20 Marks

SECTION – B

Answer any **five** questions. Each question carries **5** marks.

11. Briefly explain the Binomial model in option pricing.

12. Briefly explain the classifications of Derivatives.

13. What are the guidelines of ICAI regarding derivatives?

14. What is the accounting treatment in respect of equity stock option in case of delivery settled options?

15. Explain the features of various option contracts with example.

16. What are the speculative trading strategies with respect to different types of derivatives?

17. What are the steps in Risk Management Process?

18. How can insurance be treated as a risk transfer mechanism?

(5 × 5 = 25 Marks)

SECTION – C

Answer any **two** of the followng questions. Each question carries **15** marks.

19. "The basic purpose of derivatives instruments is to provide commitments to prices for future dates for giving against adverse movement in future prices". Discuss and critically examine the statement?

20. Briefly discuss the relationship between risk management, compliance and audit.

21. How risks become a burden to society? Explain.

22. Distinguish between spread, straddle and strangle option strategies and compare them with examples

(2 × 15 = 30 Marks)

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N – 6329

Reg. No. : 590 20 152 002

Name : Vrunda . M9. G

Fourth Semester M.Com. Degree Examination, June 2022

Elective-Finance/Marketing

Paper IV : CO 244S MANAGEMENT OPTIMIZATION TECHNIQUES

(2018 Admission Onwards)

Time : 3 Hours

Max. Marks : 75

SECTION – A

Answer **all** questions. **Each** carries 2 marks.

1. What is Operations Research?

2. What are the Characteristics of Optimisation techniques?

3. Where Queuing Theory is used

4. What is Decision Theory?

5. What is meant by Feasible Region?

6. In LPP, when a basic solution to the system of equations is called degenerate?

7. How an Unbalanced Transportation Problem is treated?

8. What is an Assignment Problem?

9. What are the Advantage of simulation?

10. What is the significance of Slack, in Network Analysis

(10 × 2 = 20 Marks)

SECTION – B

Answer any **five** questions. **Each** question carries **5** marks.

11. Which are the popular optimization techniques

12. A company owns two flour mills viz. A and B, which have different production capacities for high, medium and low quality flour. The company has entered a contract to supply flour to a firm every month with at least 8, 12 and 24 quintals of high, medium and low quality respectively. It costs the company Rs.2000 and Rs.1500 per day town mill A and B respectively. On a day, Mill A produces 6, 2 and 4 quintals of high, medium and low quality flour, Mill B produces 2, 4 and 12 quintals of high, medium and low quality flour respectively. How many days per month should each mill be operated in order to meet the contract order most economically

13. Solve the following unbalanced assignment problem of minimizing the total time for performing all the jobs

		Jobs				
		1	2	3	4	5
	A	5	2	4	2	5
	B	2	4	7	6	6
Workers	C	6	7	5	8	7
	D	5	2	3	3	4
	E	8	3	7	8	6
	F	3	6	3	5	7

14. Solve the game with the following pay-off matrix.

Player B
Strategies

		I	II	III	IV	V
	1	-2	5	-3	6	7
Player A Strategies	2	4	6	8	-1	6
	3	8	2	3	5	4
	4	15	14	18	12	20

15. A supplier is required to deliver 20000 tons of raw materials in one year to a large manufacturing organization. The supplier maintains his go-down to store the material received from various resources. He finds that cost of inventory holding is 30 paisa per ton per month. His cost for ordering the material is Rs. 400. One of the conditions of the supplier contact from the manufacturing organization is That the contract will be terminated in the event of supply not being maintained as a schedule. Determine (1) in what lot size is the supplier should produce the material for minimum total associated cost of inventory? (2) At what time interval should he procure the material? It may be assume that replacement of inventory is instantaneous

16. Customers arrive at a bakery at an average rate of 16 per hour on weekday mornings. The arrival can be described by a Poisson distribution with a mean of 16. Each clerk can serve a customer in an average of three minutes; This time can be described by an exponential distribution with a mean of 3.0 minutes.

   (a) What are the arrival and service rates?

   (b) Compute the average number of customers being served at anytime.

   (c) Suppose it has been determined that the average number of customers waiting in line is 3.2. compute the average number of customers in the system (i.e., waiting in line or being served), the average time customers wait in line, and the average time in the system.

17. What are the Differences between PERT and CPM?

18. Which are the different types of activities and events in a Network analysis?

(5 × 5 = 25 Marks)

SECTION – C

Answer any **two** of the following questions. **Each** question carries **15 marks**.

19. Solve using simplex method

   Maximize : $-12.5x_1 - 14.5x_2$

   Subject to :
   $$x_1 + x_2 - S3 = 2000$$
   $$40x_1 + 75x_2 - S4 = 100000$$
   $$75x_1 + 100x_2 + S5 = 200000$$
   $$x_1, x_2 S3, S4, S5 \geq 0$$

3

20. Explain the different methods used for solving a Transportation problem. ✓

21. Solve the following transportation problem using Vogel Approximation Method.

Origin	Destination				a_i
	1	2	3	4	
1	20	22	17	4	120
2	24	37	9	7	70
3	32	37	20	15	50
bj	60	40	30	110	240

22. The following details are available regarding a project

Activity	Predecessor Activity	Duration (Weeks)
A	—	3
B	A	5
C	A	7
D	B	10
E	C	5
F	D,E	4

Determine the critical path, the critical activities and the project completion time

(2 × 15 = 30 Marks)

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Reg. No. : 590 20 152 002.

Name : Vinmele. M.G.

Fourth Semester M.Com. Degree Examination, June 2022

Elective – Finance

Paper III : CO 243F – ACCOUNTING STANDARDS

(2018 Admission Onwards)

Time : 3 Hours

Max. Marks : 75

SECTION – A

Answer **all** questions. **Each** question carries **2** marks.

1. Define IFRS

2. Name a few prominent accounting standards setting bodies in India.

3. What is Revenue Recognition?

4. Define Retail Inventory Method.

5. What is the cost of self-generated asset as per AS 10?

6. Define Good will.

7. What is Operating Lease?

8. What is Segment Assets?

9. What you mean by Equity Shares?

10. What is Current Tax?
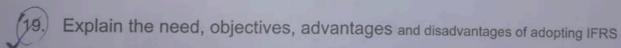
(10 × 2 = 20 Marks)

P.T.O.

SECTION – B

Answer any **five** questions. **Each** question carries **5** marks.

11. Describe the objectives of accounting standards in India.

12. Elaborate the role and objectives of IASB.

13. Enumerate any three main items of revenue on which AS 9 does not apply.

14. Write Notes on: Dilutive Potential Equity Shares.

15. Briefly explain the disclosure requirements for intangible assets as per AS 26

16. Write Notes on AS-6

17. Explain the accounting treatment on revaluation of fixed assets.

18. Write notes on Business and Geographical Segment as per AS 17.

(5 × 5 = 25 Marks)

SECTION – C

Answer any **two** of the following questions. Each question carries **15** marks.

19. Explain the need, objectives, advantages and disadvantages of adopting IFRS

20. Elaborate the valuation of inventories as per AS 2

21. Discuss the methodology involved in the accounting and reporting of lease in the books of the lessor

22. Explain the three fundamental accounting assumptions recognised by Accounting Standards (AS)1.

(2 × 15 = 30 Marks)

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