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Fifth Semester B.B.A. Degree Examination, December 2024 Career Related First Degree Programme under CBCSS

Group 2(b)

Core Course

BM 1541 — QUANTITATIVE TECHNIQUES FOR MANAGEMENT (2022 Admission)

Time: 3 Hours

Max. Marks: 80

PART - A

Answer all questions. Each question carries 1 mark.

- 1. What is Operations Research?
- 2. What is meant by modelling in Operations Research?
- 3. What is graphic method of solving LPP?
- 4. What are decision variables in LPP?
- 5 Which are the methods of obtaining initial feasible solution to transportation problem?
- 6. What is meant by Payoff?
- 7. What is network analysis?

Answer any six questions. Each question carries 4 marks.

- 23. What are the main features of linear programming?
- 24. Write short note on North West Corner Rule.
- 25. What is meant by 'crashing' in network analysis?
- 26. What are the properties of binomial distribution?
- 27. A dietician mixes two types of food in such a way that the vitamin contents of the mixture contain atleast 8 units of vitamin A and 10 units of vitamin C. Food X contains 2 units per kg of vitamin A and 1 unit per kg of vitamin C while food Y contains 1 unit per kg of vitamin A and 2 units per kg of vitamin C. One kg of food X costs Rs.5 whereas one kg of food Y costs Rs. 7.

Formulate the above as LPP.

28. Solve the following transportation problem by lowest cost entry method.

Retail agency										
Factories	1	2	3	4	_5	Capacity				
1	1	9	13	36	51	50				
2	24	12	16	20	1	100				
3	14	- 33	1	23	26	150				
Requirement	100	60	50	50	40	300				

29. Given below is the regret table.

		Events	
Act	E1	E2	E3
A1	350	0	250
A2	0	300	0
A3	450	100	100

Suppose that the probabilities of the events in this table are P(E1) = 0.30, P(E2) = 0.45 and P(E3) = 0.25, calculate expected loss of each action and find the optimal act.

30. Draw the network diagram for the following project.

Activity Predecessor activity Time estimate in weeks

Α	_	5
В		6
С	-	3
D	. A	5
Е	В	7
F	В	10
G	С	4
H	D	2
1	E	3
J	F, G	6
K	н і	4

- 31. The probability of student A passing an examination is $\frac{3}{5}$ and of student B passing $\frac{4}{5}$. Assuming the two events as independent find the probability of
 - (a) Both students passing the examination
 - (b) Only A passing the examination
 - (c) Only one of them passing the examination
 - (d) None of them passing the examination.

 $(6 \times 4 = 24 \text{ Marks})$

Answer any two questions. Each question carries 15 marks.

- 32. Explain the use of Operations Research in management.
- 33. Describe some methods which are useful for decision making under uncertainty.
- 34. Solve the following LPP using graphical method.

Maximise
$$Z = 100 x_1 + 80 x_2$$

Subject to

$$5x_1 + 10x_2 \le 50$$

$$8x_1 + 2x_2 \ge 16$$

$$3x_1 - 2x_2 \ge 6$$

$$x_1, x_2 \ge 0$$

35. A small project is composed of ten activities whose time schedule is detailed below:

Activity	Duration in weeks
1-2	6
1-3	. 2
2-3	3
2-4	3
2-5	5
3-6	4
4-7	3
5-7	3
6-7	2
7-8	2

Required to

- (a) Construct network diagram
- (b) Compute EST, LST, EFT and LFT values
- (c) Find total float for each activity
- (d) Find critical path and project duration.

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Fifth Semester B.B.A Degree Examination, December 2024

Career Related First Degree Programme under CBCSS

Group 2(b)

Core Course

BM 1542: RESEARCH METHODOLOGY

(2022 Admission)

Time: 3 Hours

Max. Marks: 80

SECTION - A

Answer **all** the questions in **one** or **two** sentences each. Each question carries **1** mark.

- 1. What is casual research?
- 2. Define deduction.
- 3. What is research gap?
- 4. What is a variable?
- 5. What is hypothesis?
- 6. What is scaling?
- 7. What is area sampling?
- 8. What is primary data?
- 9. What is coding?
- 10. What is technical report?

SECTION - B

Answer any **eight** questions in not exceeding **one** paragraph. Each question carries **2** marks.

- 11. What do you mean by ratio scale?
- 12. Explain moderating and interviewing variable.
- 13. What is experimental and control group?
- 14. Explain any two frequently using scaling techniques.
- 15. What are the merits of secondary data?
- 16. What is a schedule? What is its purpose?
- 17. Explain extraneous variables.
- 18. What is unidimensional analysis and bivariate analysis?
- 19. What do you mean by foot notes?
- 20. Write short note on non parametric tests.
- 21. What is in-depth interview?
- 22. What do you mean by snowball sampling?

 $(8 \times 2 = 16 \text{ Marks})$

SECTION - C

Answer any six questions in not exceeding one page. Each question carries 4 marks.

- 23. What are the factors affecting research design?
- 24. Explain the merits of sampling.
- 25. What are the essentials of questionnaire?
- 26. Explain the difference between pure research and applied research.
- 27. What are the features of probability sampling method?
- 28. Explain the objectives of classification.
- 29. What are the functions of research report?

- 30. What are merits and demerits of experimental research?
- 31. What are the objectives of review of literature?

 $(6 \times 4 = 24 \text{ Marks})$

SECTION - D

Answer any **two** questions in not exceeding **four** pages each. Each question carries **15** marks.

- 32. Explain the process of research.
- 33. What are the methods for collecting primary data?
- 34. Explain the layout of research report.
- 35. What do you mean by hypothesis testing? Explain the steps in testing of hypothesis.

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Fifth Semester B.B.A. Degree Examination, December 2024 Career Related First Degree Programme under CBCSS Group 2(b)

Core Course

BM 1543 : INVESTMENT MANAGEMENT (2022 Admission)

Time: 3 Hours

Max. Marks: 80

SECTION - A

Answer all questions in one or two sentences each. Each carries 1 mark.

- 1. What is the money market?
- 2. What is a book built issue?
- 3. What is a depository?
- 4. What is a European Option?
- 5. Who is an AMC?
- 6. What is NSE?
- 7. Who can be called Sub broker?
- 8. What is a stoploss order?

- 9. What is Venture Capital?
- 10. What is the Strike Price?

 $(10 \times 1 = 10 \text{ Marks})$

SECTION - B

Answer any **eight** questions in not exceeding **one** paragraph. Each question carries **2** marks.

- 11. What is a commodity future?
- 12. Explain the term Beta?
- 13. Who can be called an odd lot dealer?
- 14. What is private placement?
- 15. What is Index options?
- 16. What is Exchange Traded Funds?
- 17. What is Net Asset Value?
- 18. What is insider trading?
- 19. What is FP!?
- 20. What is Swaps?
- 21. Explain 'At-the-money' options.
- 22. What is the meaning of ESOPs?

 $(8 \times 2 = 16 \text{ Marks})$

SECTION - C

Answer any **six** questions not exceeding **one page** each. Each questions carries **4** marks

- 23. Write the features of the money market.
- 24. Differentiate Primary market and Secondary market.

- 25. State the process of investment decisions.
- 26. State the differences between forwards and futures.
- 27. Explain the weakness of Indian Money Market.
- 28. Write down the features of Swaps.
- 29. Write the objectives of portfolio management.
- 30. Explain the advantages of listing.
- 31. Explain the advantages of depositories.

 $(6 \times 4 = 24 \text{ Marks})$

SECTION - D

Answer any **two** questions in not exceeding **4** pages each. Each question carries **15** marks.

- 32. Explain the key factors affecting investment decisions
- 33. Explain the classification of mutual funds schemes in India.
- 34. Explain types of charting techniques and chart patterns in investment analysis.
- 35. Give a brief account of intermediaries in the New Issue Market.

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Fifth Semester B.B.A. Degree Examination, December 2024 Career Related First Degree Programme under CBCSS Group 2(b)

Elective Course

BM 1561.2 : CUSTOMER RELATIONSHIP MANAGEMENT (2022 Admission)

Time: 3 Hours Max. Marks: 80

SECTION - I

Answer all questions in one or two sentences. Each question carries 1 mark.

- 1. Define CRM.
- 2. What is customer retention?
- 3. Expand ERP.
- 4. What are web portals?
- 5. What are databases?
- 6. What is data warehousing?
- 7. What is hospitality industry?
- 8. Name any two web-based services.

- 9. What is a sales force?
- 10. What is activity management?

 $(10 \times 1 = 10 \text{ Marks})$

SECTION - II

Answer any eight questions. (Not to exceed one paragraph)

- 11. Explain customer lifetime value.
- 12. Write a note on the call centre.
- 13. What is analytical CRM?
- 14. Explain event-based marketing.
- 15. Write a note on software robots.
- 16. What is SFA?
- 17. Explain the term supply chain management.
- 18. Explain data mining.
- 19. What is contact management?
- 20. What are BOTs?
- 21. What is behaviour prediction?
- 22. Write a note on the target market.

 $(8 \times 2 = 16 \text{ Marks})$

SECTION - III

Short Essay questions. Answer any six questions. (Not to exceed 120 word).

- 23. What are the differences between marketing and CRM?
- 24. Explain four C's of CRM process.
- 25. Explain the relevance of customer retention.

- 26. What are the steps in sales process.
- 27. What are the uses of ERP?
- 28. Explain the web-based services.
- 29. Write a note on the legalities of data use.
- 30. What are the advantages of e CRM?
- 31. What are the steps in CRM implementation?

 $(6 \times 4 = 24 \text{ Marks})$

SECTION - IV

Long Essay questions. Answer any two questions.

- 32. Explain in detail the success factors of CRM.
- 33. Explain in detail the CRM Practices of the banking sector.
- 34. Explain in detail the various ethical practices in data use.
- 35. Explain in detail the steps in choosing CRM tools.