

M.B.A.-1 (Sem.-2) Examination
Fundamentals of Financial Management (FFM)

Time : 2-30 Hours]

May 2019

[Max. Marks : 70

Q.1 A. Define Financial Management. Wealth Maximization is one of the important goal of financial Management. Discuss. (07) 14

B. What is Maximum Permissible Bank Finance (MPBF) for XYZ limited under the second method suggested by Tandon Committee? Assume core current assets (CCA) for XYZ co. as Rs. 60 million. The data for Current assets and current liabilities are as below: (07)

Current Liabilities	Amount	Current Assets	Amount
Trade Creditors	40	Inventories	70
Provisions	20	Debtors	60
		Cash	15
	60	Total	145

Q.2 A. If you invest 5000 today at a compound interest of 9 percent, what will be its future value after 75 years? (07) 14

B. The equity stock of Ram Limited is currently selling for Rs. 30 per share. The dividend is expected next year is Rs. 2. The investors required rate of return is 15 percent. If the constant growth model applies, what is the expected growth rate?" (07)

OR

A. If the interest is 12 percent, what are the doubling periods as per the rule of 72 and rule of 69? (07)

B. If the price of equity stock in the beginning of the year is Rs. 60. Dividend paid at the end of year is 2.40. Price at the end of the year is Rs. 69. What is the rate of return on the stock? (07)

Q.3 A. Om enterprises issued a 10 year, 9 percent preference shares four years ago. The preference share which has a face value of Rs. 100 is currently selling for Rs. 92. What is the cost of preference shares? (07) 14

B. What is EOQ of the firm and total number of orders in a year, if the carrying costs per unit of inventory are Rs. 10. The fixed costs per order Rs. 20. The number of units required is 30,000 per year. The variable costs per unit ordered are Rs. 2. The purchase cost price per unit is Rs.30. (07)

OR

A. The market value of a Rs.1000 par value bond, carrying a coupon rate of 14 percent and maturing after 5 years, is Rs.1,050. What is the yield to maturity on this bond? (07)

B. Define Capital Structure. Discuss the NI and NOI Approach for capital structure. (07)

Q.4 A. Which are the long term and short term sources of Finance? Discuss. (07) 14

B. The following information is available for Ram Enterprises. The earning per share is Rs. 4. The rate of return on investments is 18 percent. The rate of return required by shareholders is 15 percent. What will be the price per share as per the Walter Model if the payout ratio is 40 percent? (07)

OR

Q.4 A. The financial information for Dev Enterprises for the year ended is given below:

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Profit and Loss Account Data		Balance Sheet Data		
Particular	(Rs in Thousands)	Particular	Beginning of 2014	End of 2014
Sales	80	Inventory	9	12
		Accounts Receivables	12	16
Cost of Goods Sold	56	Accounts Payables	7	10

What is the length of Operating Cycle? The Cash Cycle? Assume 365 days to a year. (07)

B. What are the important considerations in Credit Granting Decision? Explain with examples. (07)

Q.5

Write short notes on : (Any Two)

1. International Finance Management
2. Dividend Policy Decision
3. Working Capital Management

14

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Candidate's Seat No : _____

M.B.A.-I (Sem.-2) Examination
Business Research Methodology (BRM)

Time : 2-00 Hours]

May 2019

[Max. Marks : 50

Instructions: (1) This paper contains FIVE questions.

(2) All questions are compulsory.

(3) Question No.2, 3, 4 have internal options.

(4) Figures in the right side in parenthesis indicate marks.

Q:1(a) Distinguish between the following. (Any Two) (10)
1. Parametric test v/s non parametric test.
2. Primary data collection v/s secondary data collection.
3. Qualitative data v/s quantitative data

Q:2(a) Suppose you are using completely randomized design to study some (10)
phenomenon. There are 3 treatment level and a total of 30 people in the study.
Each treatment level has same sample size. Complete the following ANOVA
and write **all the steps** of ANOVA by making necessary assumptions.
 $F_{tab} = 3.35$.

Sources of variance	SS	df	MS	F
Treatment	91.467			
Error	276.400			
Total	367.867			

OR

Q:2(a) Explain in brief different types of sampling methods. (10)

Q:3(a) Write a detailed note on survey methods. (10)

OR

Q:3(a) Discuss research design techniques. (10)

Q:4(a) Write a note on writing and formatting of the reports. (05)

Q:4(b) Explain in brief commonly used scales in business research.

(05)

OR

Q:4(a) Successful selling is as much an art as a science but many sales managers believe that personal attributes are important in predicting sales success. Pantaloone store manager has collected sales growth data for 25 of the salespeople who were hired, along with the scores from the four tests of aptitude: creativity, mechanical ability, abstract thinking and mathematical calculation. Following is the computer output for multiple regression. (10)

Predictor	Coef	Stdev	t-ratio	p
Constant	70.066	41.55	-1.20	0.268
Creativity	0.42160	0.98163	1.09	0.312
mechanical ability	0.27140	0.37627	3.63	0.008
abstract thinking	0.74504	1.50799	1.35	0.218
mathematical calculation	0.41955	0.67332	-2.67	0.319

Se = 2.048

R-sq = 92.6%

Adj. R-sq- 95%

1. What is the best fitting regression equation for these data?
2. What is the percentage of the variation in sales growth is explained by this equation.
3. Darshan is a new applicant with score on the four tests as follows:
Creativity = 12, mechanical ability =14, abstract thinking = 18, and mathematical calculation =30, what is the sales growth for this candidate.
4. What is the value of coefficient of determination?
5. Is this a case of Multiple Regressions?
6. What is value of the standard error of estimate?
7. What is the adjusted R- Sq value?
8. Explain adjusted R- Sq term.

Q:5(a) Briefly describe the steps involved in a research process.

(10)

M.B.A.-1 (Sem.-2) Examination
Cost and Management Accounting (CMA)
May 2019

Time : 2-30 Hours]

[Max. Marks : 70

All questions are carrying equal marks

Q-1 A) What is cost accounting? How cost Accounting can be classifying, explain all classification in brief. 14

Q-2 A Product passes through three processes I, II, III. From the following information prepare the process accounts assuming that there was no opening or closing stocks. 14

Particular	Process I	Process II	Process III
Materials	1000	1500	500
Labour	5000	8000	6500
Overhead	1050	1188	2009
Actual Output (units)	9500	9100	8100
Normal Loss	3%	5%	8%

The Wastage of the process I was sold at 25 paise per unit that of Process II at 50 paise and for process III at Re 1 per unit.

Raw Material of 10000 units were introduced into process I in the beginning at a cost of Re 1 per unit

Or

Q-2 A company manufacturing two products furnishes the following data for a year: 14

Product	Annual output (units)	Total Machine Hours	Total Number of purchase order	Total Number of Setups
A	10000	15000	120	20
B	40000	85000	480	30

The annual overheads are:

Volume related activity cost Rs. 450000

Set up related Cost Rs 900000

Purchase related cost Rs 650000

You are required to calculate the cost per unit of product A and B based on

A) Traditional Method

Activity Based Costing

Q-3 The company has three production department and two service department and two service departments. The distribution summary of overheads is as follows: 14

Production Department			Service Department	
A	B	C	X	Y
10000	3500	4500	4000	2000

The service departments' expenses are charged on percentage basis as follows:

	A	B	C	X	Y
X	20%	25%	35%	-	20%
Y	25%	25%	40%	10%	-

You are required to prepare secondary distribution summary by using 1) Repeated Distribution Method and 2) Equation Method

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Or
 Q-3 The following data relate to a passenger transport company Raj Travels for June. You are required to calculate the cost per passenger km. 14

Particular	Amount
Managers' salary	25000
Drivers, wages	9000
Cleaners' wages	3000
Garage Mechanic's salary	5000
Garage Rent	3000
Insurance Premium	2600
Road tax	1400
Depreciation	6000
Diesel	7000
Lubricating oil and sundries	1000
Spares	750
Tyres and tubes	4250

The company runs two buses and each of them can accommodate 50 passengers. The buses run between two towns, and the distance between them is 200 km. The number of days on which the buses had run during the month is 30 and each bus made one round trip daily. On an average, the seating capacity utilized was 75%.

Q-4 Following are the budgeted expenses for production of an electronic component of Radio (1000 units) 14

Particular	Per Unit
Direct Material	50
Direct Labour	20
Variable Overhead	20
Fixed Over head RS 10000	10
Variable expenses	5
Selling expenses (10% Fixed)	10
Distribution Expenses (20% Fixed)	5
Administrative expenses (RS 5000)	5
Total cost	125

Prepare a budget for production of A) 600 Radio and B) 800 radio

Or
 Q-4 A) From the following compute the composite BEP 7
 Total Fixed cost is Rs. 100000,
 Total sales is Rs 500000
 Total Variable cost is Rs 30000
 What company should sale to earn profit of Rs 400000
 B) What do you understand from decision making process? Explain the process in brief 7

Q-5 Write down short note (Any Two) 14
 A) Standard Costing and Variance Analysis
 B) Life Cycle Costing
 C) Kaizen Budgeting
 D) Zero based Budgeting
 E) Key Factor

M.B.A.-I (Sem.-2) Examination
Marketing Management (MM)
May 2019

Time : 2-30 Hours]

[Max. Marks : 70

Attempt all the questions. Every question carries equal marks

1. How do you define Marketing ? Explain core concepts of Marketing and new marketing realities in the light of following
 - a. Mobile apps of Taxi services like Uber and Ola.
 - b. Aircrafts of now inoperative Jet Airways leased by other operative airlines.

2. Explain the following
 - a. Macro Environment analysis in Marketing
 - b. Factors influencing Consumer Behavior

3. Explain the process of identifying market segments in the context of following brands.
 - a. Apple i-phones
 - b. Caratlane diamonds
 - c. Craftsvilla
 - d. IDFC Bank

Or

What are Competitive Strategies in Marketing? Explain with respect to Market leaders and Market Challengers.

4. Throw light on the following:
 - a. Product Life-Cycle (PLC) Marketing Strategies
 - b. Marketing Decisions in Retailing
 - c. Tools of Integrated Marketing Communications(IMC) mix
 - d. Importance of Word of Mouth(WOM) promotion

5. Explain the following:
 - a. Stages of New Product Development
 - b. Managing a Holistic Marketing Organization in the long run.

M.B.A.-I (Sem.-2) Examination
Management Science (MS)
May 2019

Time : 2-30 Hours]

[Max. Marks : 70

- Instructions: (1) This paper contains FIVE questions.
 (2) All questions are compulsory.
 (3) Question No.2, 3, 4 have internal options.
 (4) Figures in the right side in parenthesis indicate marks.
 (5) Use of Scientific Calculator is allowed.

- Q:1 (a) Answer the following. (any two) (14)
 1. Infeasibility & Unboundedness in LPP
 2. Assignment problem v/s Travelling salesman problem
 3. Transportation problem v/s transshipment problem

- Q:2 (a) Methods of Transportation Problems (07)

- Q:2 (b) Network Techniques (07)

OR

- Q:2 (a) Using pay-off matrix and decide best strategy. (07)

Player A	Player B	
	B1	B2
A1	1	2
A2	4	-3

- Q:2 (b) The school of professional studies for population, found that the mobility of the population (in %) of a state to village, town and city is in the following matrix. (07)

From/To	Village	Town	City
Village	50	30	20
Town	10	70	20
City	10	40	50

1. Prepare transition probability matrix.
2. Calculate market share for next month.

- Q:3 (a) Obtain the dual of given LPP. (07)

Minimize $Z = 7X_1 + 3X_2 + 8X_3$ Subject to, $8X_1 + 2X_2 + X_3 > 4$ $4X_1 + 6X_2 + 4X_3 \geq 12$ $X_1 + X_2 + X_3 > 2$ $3X_1 + 2X_2 - X_3 = 8$ $X_1, X_2, X_3 > 0$

- Q:3 (b) A diet for a sick person must contain at least 4000 units of vitamins. 50 units (07)

of minerals and 1400 calories. Two foods A and B are available at a cost of Rs. 4 and R. 3 per unit, respectively. If one of A contains 200 units of vitamins, 2 units of mineral and 40 calories and one unit of B contains 100 units of vitamins, 1 unit of mineral and 40 calories. Formulate this LPP.

OR

Q:3 (a) Use the information given in Q:3 (b) LPP formulation, using that information determine the product mix by applying graphical method. (07)
(Graph paper not required.)

Q:3 (b) A company manufactures around 150 bikes. The daily production varies from 146 to 154.

Production per day	146	147	148	149	150	151	152	153	154
Probability	0.04	0.09	0.12	0.14	0.11	0.10	0.20	0.12	0.08

The finished bikes are transported in a specially arranged lorry accommodating only 150 bikes. Using following random numbers 80, 81, 76, 75, 64, 43, 18, 26, 10, 12, 65, 69, 61, and 57. Simulate the process to find out:

1. What will be the average number of bikes waiting in the factory?
2. What will be the average number of empty space in the lorry?

Q:4 (a) If $\mu = 3$, and $\lambda = 10$. Calculate (07)

1. Utilization factor
2. Probability that system is idle
3. Expected no. of customers in the system
4. Expected waiting time in the queue

Q:4 (b) Suppose we have an assignment problem where there are three workers and an equal no of jobs, and the cost matrix as given below. (07)

		Job			
Worker	A	B	C	D	
1	18	24	28	32	
2	08	13	17	18	
3	10	15	19	22	

Formulate this as LPP.

OR

Q:4 (a) Calculate IBFS from following cost matrix using any method of your choice. (07)

		Destinations			
Sources	D1	D2	D3	D4	Supply
S1	19	30	50	10	7
S2	70	30	40	60	9
S3	40	8	70	20	18
Demand	5	8	7	14	34

Q:4 (b) From the following time matrix (in minutes) Solve the assignment using (07)

HAM.		Job			
Worker	A	B	C	D	
1	18	24	28	32	
2	08	13	17	18	
3	10	15	19	22	

Q:5 (a) The following table represents a network with the arc identified by their starting and ending nodes. Draw a network and calculate shortest distance. (14)

Arc	Distance
1-2	3
2-3	3
2-4	7
2-5	9
3-5	5
4-5	2
5-6	6
6-7	4
6-8	13
7-8	10



M.B.A. (Sem.-2) Examination
Production and Operations Management (POM)

Time : 2-30 Hours]

May 2019

[Max. Marks : 70

Q.1[A] Consider a situation where you are in production department of company working in FMCG industry. You need to create a latent product and discuss its procedure from idea generation to commercialization to the technical team with whom you would be developing the product.

Explain how you will work on it?

[7]

Q.1[B] Vadia manufacturing wants to start with production of milk and milk products in Ahmedabad. You are hired as a consultant for determining where to set plant and what would be the market scenario and forecasts after production starts. Help him with your views

[7]

Q.2

[A] Explain ROP and Lead-Time with examples.

[4].

OR

[A] Explain Aggregate Planning in detail.

[4]

[B] Mention different types of inventory with example.

[4]

OR

[B] Explain Qualitative methods of forecasting with example.

[4]

[C] A toy manufacturer uses 72000 rubber wheels per year for its bulldozer series. The firm makes its on wheels, which it can produce at a rate of 1200 per day. Toy bulldozers are assembled uniformly over entire year. Carrying cost is \$1 per wheel per year. Set up costs for production run of wheels is \$45. The firm operates for 240 days per year.

Determine (i) Optimal run size
(ii) Minimum total annual cost for carrying and setup.
(iii) Cycle time for optimal run size
(iv) Run time

[6]

Q.3 [A] From the following information determine critical path, project completion time, earliest start, earliest finish, latest start and latest finish.

[10]

Activity	Immediate Predecessor	Expected Time (days)
A	-	5
C	A	8
D	C	2
B	A	7
E	-	3
F	E	6
I	B, D	10
M	F, I	8
G	-	1
H	G	2
K	H	17
END	K, M	

[B] A shop repair operation uses two step sequence that all jobs in a certain category follow. For the group of jobs listed below, determine sequence which will minimize total completion time. Determine idle time of workstation B.

[4]

Job times (Minutes)					
	A	B	C	D	E
Workstation A	27	18	70	26	15
Workstation B	45	33	30	24	10

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[B] Explain AOA and AON with reference to Project management.

[4]

Q.4 Explain the following (Any Four)

[14]

1. Vertical Integration
2. Queue Discipline
3. Multiple priority model of Queuing theory
4. Keiretsu Network
5. Virtual Companies

Q.5 Explain the following (Any Seven)

[14]

1. What do you mean by Baldrige award?
 2. Who is Edward Deming?
 3. Explain Six Sigma Certification
 4. Explain Control charts with reference to variable charts and attribute charts
 5. Explain Consumer's risk and Producer's risk.
 6. What do you mean by control limits?
 7. Toyota believes in manufacturing as per requirement, give your views on this belief.
 8. Explain ISO 9001
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M.B.A. (M.M.) (Sem.-2) Examination
Introduction to Maritime Management-2
(IMM-2)
May 2019

Time : 2-30 Hours]

[Max. Marks : 70

Question -1:**(14 MARKS)**

Discuss in detail about Ship Building Policy.

Question -2:**(14 MARKS)**

Briefly explain about Port Security.

OR

What is meant by Shipping Line, CFS, CHA & Freight Forwarder? Describe their roles in International logistics & supply chain.

Question -3:**(14 MARKS)**

Discuss in detail about various Laws and Acts applicable to Port & Shipping Operations.

OR

- a) Briefly explain about Flag Colors/Flag on Board as per Vessel.
- b) Discuss about Economics of Logistics in International Trade.

Question -4:**(14 MARKS)**

Briefly explain about Basic concept of Navigational Charts & its Authority.

OR

- a) Discuss about Port Reforms.
- b) Discuss about Ship Recycling Yard.

Question -5:**(14 MARKS)**

Explain briefly about Coastal resource mapping and Conservation.

