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## B.Com SEM II 17-18 Question Papers

Roll No: \_\_\_\_\_  
Total No: of Questions: 06

Total No: of pages: 02

## B.Com Semester End Examination

### Practice of Insurance

Semester No: II

Duration: 02 Hrs.

Maximum Marks: 80 Marks

#### Instructions:-

1. All questions are compulsory, however internal choice is available.
2. Answer sub-questions, Question No.1 & Question No. 2 in not more than 100 words each.
3. Answer questions, from Question No. 3 to Question No. 6 each in not more than 400 words.
4. Figures to the right indicate full marks allotted to each question.
5. Start each new question on a fresh page.
6. Provide sufficient margin space in the answer book for recording marks
7. Enter the appropriate main & sub-question numbers in the answer-book.

**Q.1 Answer the following (ANY FOUR)**

(4x4=16 marks)

- a) Importance of claim management in insurance
- b) Nomination and paid up value
- c) Motor vehicle insurance claim
- d) Insurance intermediaries
- e) Third party administrator
- f) Code of conduct for agents

**Q.2 Answer the following (ANY FOUR)**

(4x4=16marks)

- a) Objectives of marketing of insurance products
- b) Traditional distribution channel
- c) Marketing mix in insurance
- d) Need of rural insurance
- e) Double insurance
- f) Unemployment Insurance

**Q.3X) Explain OECD guidelines on the best practices of insurance in claim management** (12 marks)

OR

**Y) Explain in detail the types of claims in life insurance.** (12 marks)

**Q.4 X) Explain the pre-requisites to become a successful insurance agent.** (12 marks)

OR

**Y) Explain the functions of an insurance agent.** (12 marks)

**Q.5X)** What is Distribution channel of insurance marketing? Explain its modern distribution channel. (12 marks)

**OR**

**Y)** Explain the various marketing strategies of any four insurance players. (12 marks)

**Q.6 X)** Explain the features and various provisions of IRDA regulations on social Insurance (12 marks)

**OR**

**Y)** Explain any four various Rural insurance policies in India. (12 marks)

**\*\*\*\*\***

Roll No:

Total No. of Questions: 06

Total No. of pages: 05

B.Com Semester End Examination  
Financial Statement Analysis and Interpretation  
Semester II

Duration: 02 Hrs.

Maximum Marks: 80 Marks

- Instructions:
- 1) Question No. 1 is Compulsory
  - 2) Answer any 3 Question from Q. No. 2 - Q. No. 6
  - 3) Figures to the right indicate maximum marks allotted.
  - 4) Provide sufficient margin space in the answer-book for recording marks.
  - 5) Enter the appropriate main & sub-question numbers in the answer-book.

Q1. The Godavari Manufacturing Co. Ltd. was registered with a nominal Capital of Rs. 15,00,000 dividend into equity shares of Rs. 100 each. On 31<sup>st</sup> December 2017; the following were the ledger balance in the company's books. (20 Marks)

Particular	Amount	Particular	Amount
Calls in Arrears	20,000	Bills Payable	95,000
Plant and Machinery	9,00,000	General Reserve	62,500
Opening stock	1,87,500	Profit and Loss appropriation Account	36,250
Fixtures	18,000	Equity Share capital	11,50,000
Debtors	2,17,500	6% Debenture	7,50,000
Building	7,50,000	Sales	10,37,500
Purchases	4,62,500	R.D.D	8,750
Interim Dividend paid	17,500	Creditors	1,25,000
Rent	12,000		
General Expenses	12,250		
Debenture Interest	22,500		
Preliminary Expenses	12,500		
Fright	32,750		
Goodwill	62,500		
Wages	2,12,000		
Cash in Hand	5,875		
Cash at Bank	95,750		
Directors Fees	14,35.		
Bad Debts	5,275		
Commission on sales	18,000		
Salaries	36,250		
4% Government Securities	1,50,000		
	<b>32,65,000</b>		<b>32,65,000</b>

Adjustments:

1. Depreciation on Plant and Machinery at @ 10% and Fixture @5%.

2. Rs. 25,000 included in wages utilized in adding the extra building for the company.
3. Final dividend for the capital is @ 7%.
4. Preliminary expenses to be written off by  $\frac{1}{4}$ .
5. The provision for reserved for doubtful debt to be maintained a @10% on sundry Debtors.
6. Rs. 25,000 were to be transferred to general reserve.
7. A provision for Income tax to the extent of Rs. 50,000 was to be made.

Q2. From the financial statement of Limca and Flora Ltd. prepare a common size financial statement under schedule III and give your comments on them. (20 Marks)

**Profit and Loss Account for the year ended on 31<sup>st</sup> December 2017**

Particular	Amount	Particular	Amount
To Opening Stock	4,00,000	By Sales	20,00,000
To Purchases	12,00,000	By Closing Stock	6,00,000
To Wages	2,50,000		
To Direct Expenses	2,50,000		
To Gross Profit c/d	5,00,000		
	<b>26,00,000</b>		<b>26,00,000</b>
To Administrative Expenses	75,000	By Gross Profit c/d	5,00,000
To Selling & Distribution Expenses	50,000	By Dividend	30,000
To Depreciation	65,000		
To Interest on Bank loan	20,000		
To Net Profit c/d	3,20,000		
	<b>5,30,000</b>		<b>5,30,000</b>
To Preference Dividend	15,000	By Balance b/d	2,00,000
To Provision for Taxation	1,05,000	By Net Profit	3,20,000
To Surplus to Balance Sheet	4,00,000		
	<b>5,20,000</b>		<b>5,20,000</b>

Q3. Form the information given below prepare a Balance Sheet and Profit and Loss Account under Schedule III and calculate the ratios and also provide your comment. (20 Marks)

1. Liquid Ratio
2. Capital Gearing Ratio
3. Proprietary Ratio
4. Operating Ratio
5. Net Profit Ratio

Particular	Amount
Bank	50,000
Land and Building	8,00,000
Advanced payment	62,000
Stock	2,73,000

Creditors	4,06,000
Debtors	5,23,000
Bills receivable	21,000
Plant and Machinery	5,44,000
12% debenture	2,50,000
Loan from a Director	52,000
Equity share Capital	13,00,000
Profit and Loss Account	2,17,000
Bills Payable	48,000

#### Profit and Loss Account

Particular	Amount	Particular	Amount
To Opening Stock	4,00,000	By Sales	10,00,000
To Purchases	2,00,000	Less: Returns	(1,00,000)
To Carriage Inward	10,000	By Closing Stock	1,00,000
To Wages	90,000	By Income on Investment	10,000
To Salaries	10,000		
To Office Rent	4,000		
To Rates and Taxes	12,000		
To Travelling Expenses	6,000		
To Insurance	500		
To Advertising	1,500		
To Bad Debts	500		
To Discount	600		
To General Expenses	1,000		
To Postage	400		
To Depreciation	2,000		
To Audit Fees	1,500		
To Income Tax	1,35,000		
To Net Profit	1,35,000		
	<b>10,10,000</b>		<b>10,10,000</b>

Q4. From the following data you are required to prepare a Cash Flow Statement of Det Ltd. for the year ended on 31<sup>st</sup> Dec. 2017. (20 Marks)

#### Balance Sheet

Liabilities	2016 (Rs.)	2017 (Rs.)	Assets	2016 (Rs.)	2017 (Rs.)
Share Capital	70,00,000	70,00,000	Plant and Machinery	50,00,000	91,00,000
Secured Loan		40,00,000	Inventories	15,00,000	40,00,000
Creditors	14,00,000	39,00,000	Debtors	5,00,000	20,00,000
Tax payable	1,00,000	3,00,000	Cash	20,00,000	7,00,000
Profit and Loss	7,00,000	10,00,000	Prepaid	2,00,000	4,00,000

Account			Expenses		
	92,00000	1,62,00000		92,00000	1,62,00000

**Profit and Loss Account for the year Ended on 31<sup>st</sup> Dec. 2017**

Particular	Amount	Particular	Amount
To Opening Stock	15,00000	By Closing Stock	40,00000
To Purchases	98,00000	By Sales	1,00,00000
To Gross Profit c/d	27,00000		
	<b>1,40,00000</b>		<b>1,40,00000</b>
To General Expenses	11,00000	By Gross Profit c/d	27,00000
To Depreciation	8,00000		
To Taxes	4,00000		
To Net Profit c/d	4,00000		
	<b>27,00000</b>		<b>27,00000</b>
To Dividend	1,00000	By Balance b/d	7,00000
To Balance c/d	10,00000	By Net Profit b/d	4,00000
	<b>11,00000</b>		<b>11,00000</b>

Q5. From the following figures relating to P. Ltd. Prepare a Comparative statement and Comment: (20 Marks)

Particular	2016 (Rs.)	2017 (Rs.)
Sales	12,00000	15,00000
Net Block	5,00000	8,00000
Debtors	2,00000	2,95000
Creditors	1,00000	2,00000
Bank Balance	50000	20000
Closing stock	2,00000	4,00000
Bank overdraft	1,00000	2,50000
Purchases	9,00000	12,00000
Depreciation	75000	1,20000
Expenses	1,00000	1,50000
Interest on overdraft	15000	40000
Loan	---	2,00000
Interest of Loan	--	35000
Share capital	4,00000	4,00000
Reserve and Surplus	1,90000	2,07500
Provision for income tax	1,20000	1,97500
Proposed dividend	40000	60000
Opening stock	1,80000	--

Q6.A. Following information is available of a concern; calculate Economic Value Added.

Particular	Amount
------------	--------

Debt Capital @12%	2,00000000
Equity Capital	500000000
Reserve and Surplus	7,50000000
Capital Employed	10,00000000
Risk-free Rate	9%
Beta Factor	1.05
Market Rate of Return	19%
Equity (Market) Risk Premium	10%
Operating Profit after Tax	2,10000000
Tax Rate	30%

Q6.B. Explain the Meaning of EVA and its importance.



Roll No:

Total No: of Questions: 6

Total No: of pages: 1

## **B.Com Semester End Examination**

### **Introduction to Marketing**

#### **Semester: II**

Duration: 2 Hrs.

Maximum Marks: 80

- Instructions**
- 1) All questions are compulsory.
  - 2) Figures to the right indicate maximum marks.
  - 3) Start each new question in a fresh page.

Q1. Answer ANY FOUR of the following (16)

- a) Shopping goods
- b) Selling V/s Marketing
- c) Importance of marketing
- d) Factors influencing consumer behavior
- e) Marketing research

Q2. Answer ANY FOUR of the following (16)

- a) Product decisions
- b) Sales management
- c) Warehousing
- d) Ethical aspects of marketing
- e) Kiosk marketing
- f) Marketing of services

Q.3 A) What is marketing? Explain its essential Features (12)

OR

Q.3 B) Explain the different concepts used in marketing? (12)

Q.4 A) Explain the Macro & Micro environmental factors affecting the marketing environment. (12)

OR

Q.4 B) What is Market segmentation? Explain the different bases for segmenting markets. (12)

Q.5 A) Explain the various types of marketing mix decisions? (12)

OR

Q.5 B) What is sales force management? Explain its importance in business. (12)

Q.6 A) Explain in detail social responsibility of marketing (12)

OR

Q.6 B) Explain the different channels of direct marketing? (12)

Roll No:

Total No: of Questions: 4

Total No: of pages: 4

**B.Com Semester End Examination April 2018**

**Commercial Arithmetic-II**

**Semester No : II**

Duration: 2 Hrs.

Maximum Marks: 80

**Instructions:** 1) All Questions are Compulsory.

2) Figures to right indicate marks.

3) Start each new question on a fresh page.

4) On request graph will be provided.

5) Programmable calculators are not allowed.

Q.1 Answer the following:

(5x4=20)

a) If  $2A = 2B = 4C$  then find  $A : B : C$

b) Find  $\frac{dy}{dx}$  for the following:

a)  $y = x \log x$

b)  $y = (3x + 5)^2$

c) The cost function is given by  $C = x^2 + 5x + 5$ . Find the total cost, average cost and marginal cost when  $x = 10$ .

d) If  $f(x, y) = x^3 + 4xy - y^2 + 5$ , find  $f_x$  and  $f_y$  at  $(3, -1)$

**OR**

Q.1 Answer the following:

(5x4=20)

w) The demand function is given by  $p = 30 + 12D - 4D^2$ . Find average revenue and marginal revenue when the demand is 4 units.

x) i) Define percentage

ii) What percent of 48 is 12 ?

y) If  $f(x, y) = y e^x + x \log y + x^2 y^2 + 1$  at the point  $(0, 1)$ . Find  $f_x$  and  $f_y$ .

z) If the demand function given by  $D = 12 + 4p - p^2$ , find price elasticity of demand at  $p = 3$ .

(5x4=20)

Q.2 Answer the following:

a) Find  $\lim_{x \rightarrow 2} \left[ \frac{1}{x^2 - 5x + 6} + \frac{1}{2x^2 - 7x + 6} \right]$

b) Solve for x for following:

i)  $\frac{5}{4} = \frac{x}{12}$       ii)  $\frac{-2}{x} + \frac{5}{x} = 6$

c) Find  $\frac{d^2y}{dx^2}$  for the following;

i)  $y = 4x^3 + 7x^2 - 3x + 2$

ii)  $y = x^5 - e^x$

d) i) Define proportion

ii) Ram sold an article which has a market price of 320 for 250, what is the discount % ?

OR

Q.2 Answer the following:

(5x4=20)

w) Examine the continuity of f at  $x = 2$  if

$$\text{If } f(x) = x^2 - 1 \quad 0 \leq x \leq 2$$

$$= x + 1 \quad 2 < x \leq 4$$

x) A Trader marks his goods 40 % above a cost price and allows a discount of 25 %, what gain % does he make?

y) Find Higher derivative of the function  $y = (x^2 + 3) a^x$

z) If  $\frac{-x}{x+5} - 5 = \frac{x}{x+5}$  then find x.

Q.3 Answer the following:

(5x4=20)

a) Show that the points  $(10, 6)$ ,  $(-4, 4)$  and  $(4, -2)$  are the vertices of right angled triangle.

b) Find the coordinates of the point on y axis which are at a distance of 13 units from (5, -4).

c) If A (2, -5) B(-2, 1) and C (4, 7) are the vertices of triangle ABC, find the equation of the altitude from A.

d) Solve the following LPP graphically,

$$\text{Maximize } Z = 6x + 7y$$

$$\text{Subject to } 2x + 3y \leq 12$$

$$2x + y \leq 8, \quad x \geq 0, \quad y \geq 0.$$

OR

Q.3 Answer the following:

(5x4=20)

w) Find the equation of line if it

i) passing through the points (3, 4) and (-1, 2)

ii) having slope as 2 and y- intercept -1.

x) Solve the following LPP graphically,

$$\text{Minimize } Z = 6x + 7y$$

$$\text{Subject to } 2x + 3y \geq 12$$

$$2x + y \geq 8, \quad x \geq 0, \quad y \geq 0.$$

y) Write condition of concurrency and show that the lines  $3x + 4y = 11$ ,  $2x - y = 0$  and  $5x - 2y = 1$  are concurrent.

z) By using slopes Prove that ABCD is parallelogram, if, A = (8, 3) B = (2, -1), C = (0, 1) and D = (6, 5)

Q.4 Answer the following:

(5x4=20)

a) Find  $\frac{dy}{dx}$  for the following:

i)  $y = e^{x^3}$       ii)  $y = e^x (x^2 + 2x + 3)$

b) Find i)  $\int_3^4 (\log x + 4) dx$

ii)  $\int_{-1}^1 (x + 1) dx$

c) The demand function for a certain commodity at  $p = 80 - 3x^2$  then find the consumer's surplus at  $x = 5$ .

d) Evaluate i)  $\int x\sqrt{x} dx$

ii) If  $f(x) = 3x - 1$  and  $g(x) = x^2 + 1$ , find  $f[g(x)]$  and  $g[f(x)]$ .

OR

Q.4 Answer the following:

(5x4=20)

w) Evaluate i)  $\int 8x^7 dx$

ii) If  $f(x) = 3x + k$  and  $f(1) = 7$  then find  $k$  and  $f(4)$ .

x) The supply function for certain commodity at  $p = 3x^2 + 5x - 10$ . Find the producer's surplus at  $x = 2$ .

y) Evaluate  $\int_1^3 \frac{(x^2 + 3x + 2)}{x + 3} dx$

z) Find  $\frac{dy}{dx}$  for  $y = \frac{(x + 2)(x - 1)}{(x - 3)(2x + 1)}$

**II Semester End Examination, APRIL 2018****Class: F.Y.B.Com****Sub: Managerial Economics****Roll No.****Maximum Marks: - 80****Duration : 2hrs.**

- Instructions:** 1) Figure to the right indicate maxim  
2) All Questions are compulsory. However internal options are available.

**Q.I) Answer Any Four questions****(4X4=16)**

- i) State and explain cost oriented pricing methods.
- ii) Explain international price discrimination and dumping.
- iii) List any four advantages of marginal cost pricing.
- iv) Explain profit as the reward for successful innovation.
- v) Write any four assumptions of break-even analysis.
- vi) State the assumptions of profit volume analysis.

**Q.II) Answer Any Four questions****(4X4=16)**

- i) State and explain any two approaches determining the size of capital budget.
- ii) Illustrate any two sources of fund for long term financing.
- iii) Mention the need for capital budgeting.
- iv) Explain any four types of risk.
- v) What is risk adjustment?
- vi) Write a note on sources of business risk.

(1X12=12)

**Q.III) Answer any one question.**

A) Explain multi product pricing and transfer pricing.

OR

B) Interpret pricing over the life cycle of a product.

(1X12=12)

**Q.IV) Answer any one question.**

A) Firms do not always try to maximize profit. Explain the statement.

OR

B) Discuss any six profit limiting factors.

(1X12=12)

**Q.V) Answer any one question.**

A) Explain the steps in capital project evaluation.

OR

B) Discuss the nature of capital budgeting.

(1X12=12)

**Q.VI) Answer any one question.**

A) Discuss the key elements of business investment proposals.

OR

B) Interpret the theory of prisoner's dilemma.

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GOA MULTI -FACULTY COLLEGE

DHARBANDORA, GOA

II Semester Examination, APRIL 2018

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Class: F.Y Bcom

Sub: Environmental studies

Max marks: 40

Duration: 1hr 30min

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Q 1 – Answer any FOUR of the following

4x4 (16 marks)

- a. What are sources of radiations? What are its effects?
- b. Why dose intensity of Natural Disasters has increased?
- c. Management and Post disaster management of earthquakes?
- d. What is the need of Water conservation
- e. Suggest measures to control Ground water pollution
- f. Suggest remedies to stop Global warming

Q 2 – A) Write an account on Women And Child Welfare

(12 marks)

Or

B) HIV/ AIDS

(12 marks)

Q 3 – A) Value Education

(12 marks)

Or

B) Environment Protection Act

(12 marks)



Roll No:

Total No: of Questions: 6

Total No: of pages: 1

*Repeat* B.Com Semester End Examination

General Management

Semester: II

Duration: 2 Hrs.

Maximum Marks: 80

Instructions:1) All questions are compulsory.

2) Figures to the right indicate maximum marks.

3) Start each new question in a fresh page.

Q1. Answer ANY FOUR of the following (16)

- Meaning of Corporate social responsibility
- Scope of CSR
- Code of conduct
- Features of Management of Change
- Process for management of Change
- Causes for resistance for change

Q.2 Answer ANY FOUR of the following (16)

- Causes of conflict
- Conflict management
- Inter-personal conflict
- Features of group
- Group dynamics
- Informal group

Q.3 "Corporate social responsibility concept is universally accepted as it is fair & beneficial to business & society. "Explain. (12)

OR

Q.3 Explain the factors responsible for influence the ethical behavior of managers. (12)

Q.4. Explain the steps involved in the process of managing change. (12)

OR

Q.4 What is Resistance to change? Explain the factors effecting resistance to change (12)

Q.5 Enumerate different types of Conflict? Explain intra personal conflict. (12)

OR

Q5.What is Conflict management? Explain the different strategies for resolving conflict (12)

Q.6 What is meant by group dynamics? Explain its significance to business (12)

OR

Q.6 What are the problems in committees? Explain the measures for making committee's effective. (12)

Roll No:

Total No: of Questions: 4

Total No: of pages: -4

## B.Com Semester End Repeat Examination April 2018

Mathematical Technique-II

Semester No : II

Duration: 2 Hrs.

Maximum Marks: 80

Instructions: 1) All Questions are Compulsory.

- 2) Figures to right indicate marks.
- 3) Start each new question on a fresh page.
- 4) On request graph will be provided.
- 5) Programmable calculators are allowed.

Q.1 Answer the following:

(5x4= 20)

- a) If  $f(x) = (x-1)(x-2)(x+3)$ ,  $2 \leq x \leq 4$  find  $f(-1)$ ,  $f(2)$ ,  $f(3)$ . Also find  $x$ , if  $f(x)=0$ .
- b) If  $f(x) = 3x+k$  and  $f(1) = 7$ . Find  $k$ ,  $f(4)$  and  $f(-6)$ .
- c) Find  $\lim_{x \rightarrow 2} \frac{\sqrt{x+2}-2}{x^2-4}$
- d) If  $f$  is continuous at  $x=2$ ,

$$\begin{aligned} \text{where } f(x) &= x^2 - x + 1 & 0 \leq x \leq 2 \\ &= 5x + a & 2 < x \leq 4 \end{aligned} \text{ then find } a.$$

OR

Q.1 Answer the following:

(5x4=20)

- w) If  $f(x) = x^2 + 2x + 5$ , find  $x$ , if  $f(x+1) = f(x-2)$
- x) If  $x=25-3p-p^2$  is the demand function, find the price elasticity of demand function when  $p=3$ .

$$\text{y) Find } \lim_{x \rightarrow 3} \frac{x^3 - 4x - 15}{x^3 + x^2 - 6x - 18}$$

z) Discuss the continuity of the function at  $x = 4$ , where

$$f(x) = \frac{x^2 - 16}{x^2 + x - 20} \quad x \neq 4$$
$$= 8 \quad x = 4$$

then find  $f(4)$ .

Q.2 Answer the following:

- a) Find a point on the x-axis whose distance from (7,5) is 13 units. (5x4=20)
- b) If  $A = (-3,1)$ ,  $B = (4,7)$  and Q divides the segment AB externally in the ratio 3:2, find the coordinates of Q.
- c) If  $A = (6,1)$ ,  $B = (-1,8)$  and  $C = (3,-2)$  form triangle ABC, show that ABC is right angled.
- d) If  $A = (1,-2)$ ,  $B = (-2,3)$  and  $C = (2,-5)$  are the vertices of a triangle ABC, find the equation of median BD.

OR

Q.2 Answer the following:

- w) The x-intercept of a line is double its y-intercept. If it passes through (2,-4), find its equation. (5x4=20)
- x) If  $A = (3,-2)$  and  $B = (5,4)$ , find the ratio in which the y-axis divides AB. Is the division internal or external?
- y) Write down the condition of concurrency and show that the lines  $3x+y=2$ ,  $5x+2y=3$ ,  $2x-y=3$  are concurrent.
- z) Show that the points  $A = (2,5)$ ,  $B = (3,-2)$ ,  $C = (-4,1)$  and  $D = (-5,8)$  are the vertices of a parallelogram.

Q.3 Answer the following:

(5x4=20)

- a) Solve the following LPP graphically,

$$\text{Minimize } Z = 6x + 7y$$

$$\text{Subject to } 2x + 3y \leq 12$$

$$2x + y \leq 8, \quad x, y \geq 0.$$

b) If  $f(x,y) = (x+3)(y^2-3y+7)$  then find  $f_x$  and  $f_y$ .

c) Find  $\frac{dy}{dx}$  for the following:

i)  $y = \frac{x^3 + x^2 - x + 4}{x}$       ii)  $y = e^{x^3}$

d) If the marginal revenue function for a certain product is  $MR = 4x^3 + 6x^2 + 10x + 1$ .

Find the revenue function and average revenue when  $x=10$ .

OR

Q.3 Answer the following:

(5x4 = 20)

w) Solve the following LPP graphically,

Maximize  $Z = x + y$

Subject to  $x + 2y \leq 8$

$3x + 2y \leq 12, \quad x, y \geq 0.$

x) If  $f(x,y) = x^3 - y^3 + 4xy + 9x + 10$  at the point (1,3). Find partial order derivatives at (1,2).

y) Find  $\frac{dy}{dx}$  for the following:

i)  $y = (3x + 5)^{10}$       ii)  $y = e^x(x^2 + 2x + 3)$

z) The total cost of  $q$  items is given by  $15e^q + 2$ . Find the marginal cost at  $q=3$ .

Q.4 Answer the following:

(5x4 = 20)

a) Differentiate the following:

i)  $\frac{(3x+2)(5x-1)}{x^2}$

ii)  $x^2 + 2^x + e^2$

b) Find i)  $\int_2^3 \log x \, dx$

ii)  $\int_{-3}^3 (3x^2 + 4) \, dx$

c) The supply function for a certain commodity is  $p = 3x^2 + 5$ . find the producer's surplus at  $x = 5$ .

d) Evaluate  $\int x \sqrt{x} \, dx$

OR

Q.4 Answer the following:

(5x4= 20)

w) Find  $\frac{dy}{dx}$  for the following:

i)  $(x + 2)(x^3 - 4)$

ii)  $(x^2 + 3x) \log x$

x) Find the maximum values of  $f(x) = x + \frac{1}{x}$ .

y) Evaluate  $\int_0^6 (x + 1)(x - 2) dx$ .

z) The demand function for a certain commodity at  $p = 80 - 3x^2$ . Find the consumer's surplus at  $x = 5$ .

Roll No:

Total No. of Questions: 06

Total No. of pages: 03

B.Com Semester End Examination  
Financial Accounting II  
Semester II

Duration: 02 Hrs.

Maximum Marks: 80 Marks

- Instructions:**
- 1) Question No. 1 is Compulsory
  - 2) Answer any 3 Question from Q. No. 2 - Q. No. 6
  - 3) Figures to the right indicate maximum marks allotted.
  - 4) Provide sufficient margin space in the answer-book for recording marks.
  - 5) Enter the appropriate main & sub-question numbers in the answer-book.

Q1. A, B & C sharing profits and losses in the proportion of 1/2, 1/3 & 1/6. Their Balance Sheet was as follows: (20 marks)

Liabilities		Amount	Assets		Amount
Creditors		50000	Land and Buildings		70000
A's Loan A/c		10000	Plant & Machinery		40000
A's Capital A/c		50000	Stock		25000
B's Capital A/c		10000	Debtors		20000
C's Capital A/c		40000	Cash		5000
		<b>160000</b>			<b>160000</b>

The partnership is dissolved & the Assets are realized as follows

1st Realisation	40000
2nd Realisation	30000
3rd Realisation	54000
4th Realisation	7000

Prepare a statement showing how the distribution should be made by using proportionate capital method.

Q2. The Goa Carbon Ltd. Canacona has a Branch at Panaji. Goods are sent to the branch by head office at cost plus 33<sup>1/3</sup>%. All expenses are paid by head office and cash received is sent to head office immediately. (20 marks)

Particular	Amount
Stock on 1.1.2011 (at Cost price)	1,96,200
Debtors on 1.1.2011	3,15,000
Petty cash on 1.1.2011	2250
Goods received from head office at Invoice Price	5,85,000
Goods return to head office (at Cost price)	10,800
Cash sales	3,82,500
<b>Expenses paid by head office:</b>	
Salary and Wages	84,000

Trade expenses	22,500
Rent	28,500
Cash sent for petty expenses	2130
Discount allowed to customer	31,500
Discount received	1200
Bad Debts	8400
Cash received from Debtors	5,280,500
Stock on 31.12.2011 at cost	1,70,100
Debtors on 31.12.2011	37,980
Petty Cash on 31.12.2011	1080

Prepare Branch Stock Account, Branch Adjustment Account, Branch Debtors Account, Branch Expenses Account and Branch Profits and Loss Account in the books of Head office.

(20 marks)

- Q3. The following are the details of a Spare parts of Sri's Mills:
- 1 March 2012 opening Stock 100 @ Rs. 45 per unit
  - 2 March 2012 purchases of 100 units @ Rs. 30 per unit.
  - 3 March 2012 Issued for Consumption 50 units.
  - 4 March 2012 Purchases of 200 units @ Rs. 40 per unit.
  - 15 March 2012 Issued for Consumption 100 units.
  - 20 March 2012 Purchases 150 units @ Rs. 50 per unit.
  - 21 March 2012 issued for consumption 100 units.
  - 25 March 2012 issued for consumption 100 units.
- Find out the value of stock as on 31<sup>st</sup> March 2012 under FIFO Method

- Q4. From the following balance extracted from the books of Akshay, prepare Departmental Trading and Profits and Loss Account for the year ending on 31<sup>st</sup> March 2012 and a Balance Sheet as on that date.
- (20 marks)

Particular	Debit (Rs.)	Credit (Rs.)
Stock (1/4/2011)	108,000	
Dept. A	98,000	
Dept. B		
<b>Purchases:</b>	196,000	
Dept. A	147,000	
Dept. B		
<b>Sales:</b>		338,000
Dept. A		270,400
Dept. B		
<b>Wages:</b>		
Dept. A	26,800	
Dept. B	4,800	
Rent	37,400	
Salaries	26,400	
Lighting and Heating	8,400	

Discount Allowed		
Discount Received	8,820	
Advertisement		2,660
Carriage outward	14,760	
Machinery	9,380	
Land and Building	12,000	
Debtors	84,000	
Creditors	36,400	
Capital		74,740
Drawing		190,600
Cash	18,000	
Bank	640	
	39,600	
	<b>876,400</b>	<b>876,400</b>

The following information is available:

- Rent, Lighting and Heating, Salaries, Depreciation are to be apportioned to A and B Dept. as 4:2
  - Other expenses and income are to be apportioned to A and B Dept. on 1:1 basis.
  - Following adjustment are to be made:  
Rent prepaid: Rs. 3700, Lighting and Heating outstanding Rs. 1800, Depreciation on Machinery and Land & Building @ 5% p.a.
  - Stock on 31<sup>st</sup> March 2012 Dept. A Rs. 54,000 and Dept. B Rs. 60,000.
- Q5. On 1<sup>st</sup> April 2010, the Stock of Sri Vyas was destroyed by fire but sufficient records were saved from which the following particular were ascertained. (20 marks)

Stock at cost on 1 <sup>st</sup> January 2009	73,500
Stock at cost on 31 <sup>st</sup> December 2009	79,600
Purchases 31 <sup>st</sup> December 2009	3,98,000
Sales 31 <sup>st</sup> December 2009	4,87,000
Purchases from 1.1.2010 to 30.03.2010	1,62,000
Sales from 1.1.2010 to 30.03.2010	2,31,200

In Valuation the stock for the Balance Sheet at 31<sup>st</sup> December 2009 Rs. 2,300 had been written off for certain stock which was a poor selling line, it having cost Rs. 6,900. A portion of these goods were sold in March 2010 at a loss of Rs. 250 on original cost Rs. 3,450. The remainder of this stock was now estimated to be worth its original cost. Subject to the above exception, gross profit had remained at a uniform rate throughout the year. The value of stock salvaged was Rs. 5,800. The policy was for Rs. 50,000 and was subject to the average clause adapted. Show the amount of the claim for loss by fire.

Q6. Answer the following question in 100 words.

- Distinguish between Branch and Department. (Any four point) (4\*5)
- What is Average Clause in Fire Insurance?
- What is Weighted Average method and it's Advantages (any two).
- Explain Advantages of Departmental Accounting.
- Explain the meaning of Maximum Loss Method and any two disadvantages.



Roll No:

Total No. of Questions: 06

Total No. of pages: 02

**B.Com Semester End Examination**

**Practice of Insurance**

**Semester No: II**

**Duration: 02 Hrs.**

**Maximum Marks: 80 Marks**

**Instructions:-**

1. All questions are compulsory, however internal choice is available.
2. Answer sub-questions, Question No.1 & Question No. 2 in not more than 100 words each
3. Answer questions, from Question No. 3 to Question No. 6 each in not more than 400 words.
4. Figures to the right indicate full marks allotted to each question.
5. Start each new question on a fresh page.
6. Provide sufficient margin space in the answer book for recording marks
7. Enter the appropriate main & sub-question numbers in the answer-book.

**Q.1 Answer the following (ANY FOUR)**

**(4x4=16 marks)**

- a) Repudiation of claims in life insurance
- b) Importance of claim management in insurance ( Any four points)
- c) Concept of Nomination and assignment
- d) Insurance ethics
- e) Methods of remunerating agents ( Any two points)
- f) Pre-requisites for agents success (Any four points )

**Q.2 Answer the following (ANY FOUR)**

**(4x4=16marks)**

- a) Marketing mix in insurance
- b) Traditional Distribution channel
- c) Bancassurance
- d) Need of Rural insurance in India
- e) Unemployment Insurance
- f) Poultry insurance

**Q.3 X) Explain the OECD guidelines on the best practices of insurance in claim management. (12 marks)**

**OR**

**Y) Explain in detail the types of claims in life insurance**

**(12 marks)**

**Q.4 X) Explain the various functions of an insurance agent.**

**(12 marks)**

1.



P.T.O

OR

Y) Agency as a profession. Explain.

(12 marks)

Q.5) Explain the various marketing strategies of any four insurance players.

(12 marks)

OR

Y) Explain the scope & objectives of marketing of insurance products.

(12 marks)

Q.6 X) Explain the features and various provisions of IRDA regulations on social insurance in India.

(12 marks)

OR

Y) What is cattle insurance? Explain the procedure for settlement of a claim under cattle insurance.

(12 marks)

\*\*\*\*\*

Roll No:

Total No. of Questions: 06

Total No. of pages: 04

B.Com Semester End Examination  
Financial Statement Analysis and Interpretation  
Semester II

Duration: 02 Hrs.

Maximum Marks: 80 Marks

- Instructions:**
- 1) Question No. 1 is Compulsory
  - 2) Answer any 3 Question from Q. No. 2 - Q. No. 6
  - 3) Figures to the right indicate maximum marks allotted.
  - 4) Provide sufficient margin space in the answer-book for recording marks.
  - 5) Enter the appropriate main & sub-question numbers in the answer-book.

Q1. The Aurangabad Flour Mills Ltd. has an authorized capital of 1,200 equity shares of 100 each. The public have subscribed 720 equity shares of Rs. 100 each and have paid the full amount on these shares.

The following is the Trial Balance of the Company on 31<sup>st</sup> March, 2018

Particular	Amount	Particular	Amount
Stock Of Wheat	16,000	Sales Of Flour	5,30,000
Stock Of Flour	9,500	Interest On Investment	260
Purchases Of Wheat	4,05,000	Rent Received	1,200
Manufacturing Expenses	80,000	Profit And Loss Account On 1.4.2017	6,500
Salaries	12,000	Share Capital	72,000
Wages	5,000	General Reserve	22,000
Printing And Stationary	1,600	Dividend Equalization Reserve	14,000
Traveling Expenses	1,000	Provision For Taxation	8,350
Postage And Telegram	1,250	Unclaimed Dividend	1,050
Audit Fess	1,000	Deposits	900
Sundry Expenses	400	Trade Creditors	77,190
Directors Fees	250		
Land	12,000		
Building	50,000		
Furniture	5,000		
Motor Vehicles	24,000		
Stores And Spare Parts	15,000		
Advances	12,000		
Book Debts	30,850		
6% Maharashtra State Electricity Board Loan	5,000		
Cash In Hand	1,600		
Cash At Bank	45,000		
	<b>7,33,450</b>		<b>7,33,450</b>

Adjustment:



1. Stock on 31<sup>st</sup> March 2018 : Wheat Rs. 20,000 and Flour Rs. 35,100
  2. Outstanding expenses were: Manufacturing Expenses Rs. 22,250; Salaries Rs. 600; Wages Rs. 500; Printing and Stationary Rs. 1,200.
  3. Interest accrued on Investment Rs. 150.
  4. Provide Rs. 12,000 for Taxation for the year 2017-2018.
  5. Provide depreciation on Furniture @ 10%; Building @5% and Motor Vehicle @ 15%
- From the above, prepare the Profit and Loss Account under schedule III for the year ended on 31<sup>st</sup> March, 2018. (20 marks)

- Q2. From the following Financial Statement of R. Ltd., prepare a Common Size Financial Statement under Schedule III and give your comments on them. (20 Marks)

**Profit and Loss Account for the year ended 31<sup>st</sup> March, 2007.**

Particular	Amount	Particular	Amount
To Opening Stock	80,000	By Sales	4,00,000
To Purchases	2,40,000	By Closing Stock	1,20,000
To Wages	50,000		
To Factory Overhead	50,000		
To Gross Profit c/d	1,00,000		
	<u>5,20,000</u>		
To Administrative Expenses	15,000	By Gross Profit b/d	5,20,000
To Selling & Distribution	10,000	By Dividend received	1,00,000
To Depreciation	13,000		6,000
To Interest on Debenture	4,000		
To Net Profit c/d	64,000		
	<u>1,06,000</u>		
To Preference Dividend	3,000	By Balance b/d	1,06,000
To Provision for Taxation	21,000	By Net profit b/d	40,000
To Surplus to Balance Sheet	80,000		64,000
	<u>1,04,000</u>		
			<u>1,04,000</u>

- Q3. You are finished with following information:

**Balance Sheet of X Ltd. as at 31<sup>st</sup> Dec. 2017**

Liabilities	Amount	Assets	Amount
Equity Capital	6,00,000	Goodwill	2,00,000
12% Preference Share	2,00,000	Plant & Machinery	5,00,000
15% Debenture	4,00,000	Furniture	3,00,000
Unsecured loans	4,00,000	Vehicles	2,00,000
Sundry Creditors	3,00,000	Sundry Debtors	5,00,000
Provision for Taxation	60,000	Stock	3,00,000
Reserve and Surplus	2,50,000	Cash Balance	1,50,000
		Prepaid Expenses	40,000
		Preliminary Expenses	20,000
	<u>22,10,000</u>		<u>22,10,000</u>

**Profit and Loss account for the year ended on 31<sup>st</sup> Dec. 2017**

Particular	Amount	Particular	Amount
To Opening Stock	2,00,000	By Sales	43,10,000
To Purchases	36,00,000	By Closing Stock	3,00,000
To Manufacturing Expenses	3,00,000		
To Administrative Expenses	2,00,000		
To Selling Expenses	1,60,000		
To Finance Expenses	1,00,000		
To Net Profit c/d	50,000		
	<b>46,10,000</b>		<b>46,10,000</b>

Present above information in Balance sheet and Profit & Loss Account under Schedule III and Compute the following ratio and also comment on them.

1. Current Ratio.
2. Gross Profit Ratio
3. Operation Ratio
4. Stock Working Capital Ratio
5. Proprietary Ratio.

Q4. Moni Ltd. furnish you the following Balance Sheets for the year ending on 31s Dec. 2016 and 31<sup>st</sup> Dec. 2017.

(20 Marks)

You are required to prepare a Cash Flow Statement for the year ended on 31<sup>st</sup> Dec. 2017

Liabilities	2016 (Rs.)	2017 (Rs.)	Assets	2016 (Rs.)	2017 (Rs.)
Equity Share Capital	10,00000	10,00000	Goodwill	1,20000	1,20000
General Reserve	1,40000	1,80000	Land	4,00000	3,60000
Profit and Loss A/c	1,60000	1,30000	Building	3,70000	3,60000
Sundry Creditors	80000	54000	Investment	1,00000	1,10000
Outstanding Expenses	12000	8000	Inventories	3,00000	2,34000
Provision for taxation	1,60000	1,80000	Debtors	2,00000	2,22000
Provision for Bad Debts	4000	6000	Bank	66000	1,52000
	<b>15,56000</b>	<b>15,58000</b>		<b>15,56000</b>	<b>15,58000</b>

Following additional information has also been supplied to you:

1. A piece of land has also been sold for Rs. 40000
2. Depreciation amounting to Rs. 70000 has been charged on building.
3. Provision for taxation has been made for Rs. 190000 during the year.

Interpret the cash flow and comment.

Q5.A From the following Balance Sheet of Vasundra Ltd. prepare a Trend Analysis with the comment.

(15 Marks)

Particular	2014 (Rs.)	2015 (Rs.)	2016 (Rs.)	2017 (Rs.)
Proprietor Equity	500000	800000	1100000	1280000
Long term Loan	300000	200000	100000	--
Current Liabilities	300000	340000	400000	480000
Total Fund Employed	<b>1100000</b>	<b>1340000</b>	<b>1600000</b>	<b>1760000</b>
Gross Fixed Assets at Cost	160000	240000	320000	400000



Less : Depreciation	60000	100000	160000	240000
Net Fixed Assets	100000	140000	160000	160000
Advanced	150000	200000	250000	300000
Stock	300000	360000	400000	500000
Debtors	450000	540000	690000	700000
Bank	100000	100000	100000	100000
Total Assets Owned	<u>1100000</u>	<u>1340000</u>	<u>1600000</u>	<u>1760000</u>

Q5.B. Explain the meaning of Comparative Financial Statement and its advantages to company. (5 Marks)

Q6.A. Following information is available of a NEEL Ltd.; calculate Economic Value Added. (10 Marks)

Particular	Amount
Share Capital	3,0000000
Reserve and Surplus	5,0000000
Long Term Debt	5000000
Tax Rate	40%
Risk Free Rate	8%
Market Rate of Return	15%
Interest	500000
Beta factor	1.05
Profit before interest and tax	3,0000000

Q6.B.1. Explain the meaning of EVA and its Limitations. (5 Marks)

2. What is Financial Statement and its Importance? (5 Marks)

**II Semester End Examination, APRIL 2018**

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**Class: F.Y.B.Com**

**Sub: Managerial Economics**

**Roll No.**

**Maximum Marks: - 80**

**Duration: 2hrs.**

**Instructions: 1) Figure to the right indicate maximum**

**2) All Questions are compulsory. However internal options are available**

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**Q.I) Answer Any Four questions**

**(4X4=16)**

- i) Explain Retail Pricing.
- ii) Write a note on Cyclical Pricing.
- iii) Briefly explain any two methods of multi product pricing.
- iv) Illustrate profit as the reward for bearing risk and uncertainty.
- v) List and explain any two functions of profit.
- vi) Explain any two approaches to profit forecasting.

**Q.II) Answer any four of the following**

**(4X4=16)**

- i) Write a note on capital budgeting.
- ii) Explain any four factors influencing investment decisions.
- iii) Explain need for capital budgeting.
- iv) Briefly explain the concept of investment proposals.
- v) What is risk premium?
- vi) Explain any two types of uncertainty.



**Q.III) Answer any one question.**

**(1X12=12)**

A) Explain cost oriented and competition oriented pricing methods.

OR

B) Discuss pricing over the life cycle of a product.

**Q.IV) Answer any one question.**

**(1X12=12)**

A) Discuss any six profit limiting factors.

OR

B) Describe the break even charts.

**Q.V) Answer any one question.**

**(1X12=12)**

A) Interpret sources of fund for long term investment.

OR

B) Explain the steps in capital project evaluation.

**Q.VI) Answer any one Question.**

**(1X12=12)**

A) Illustrate the applications of game theory in economics.

OR

B) Describe the theory of Nash equilibrium in economics.



Roll No:

Total No: of Questions: 4

Total No: of pages: 4

**B.Com Semester End Examination April 2018**

**Commercial Arithmetic-II**

**Semester No : II**

Duration: 2 Hrs.

Maximum Marks: 80

**Instructions: 1) All Questions are Compulsory.**

- 2) Figures to right indicate marks.
- 3) Start each new question on a fresh page.
- 4) On request graph will be provided.
- 5) Use of calculators are allowed.

(5x4=20)

**Q.1** Answer the following:

a) i) If  $A : B = 3 : 4$  &  $B : C = 8 : 9$  then  $A : C = ?$

ii) If  $A/3 = B/4 = C/5$  then  $A : B : C = ?$

b) Find  $\frac{dy}{dx}$  for the following:

a)  $y = \log x (x^3 - 4x)$

b)  $y = (2x - 5)^2$

c) The price  $p$  is given by  $x = 3\sqrt{p+2}$ . Find the marginal revenue when  $p=1$ .

d) If  $f(x, y) = x^3 + 5xy + y^2 - 3x + 10$  find  $f_x$  and  $f_y$  at  $(1, 4)$

**OR**

(5x4=20)

**Q.1** Answer the following:

w) The cost function  $C = x^2 + 5x + 5$ , find average and marginal cost at the point 10.

x) i) Define Ratio

ii) What number is 5 % of 220 ?

y) If the demand function given by  $x = 25 - 3p - p^2$ , find price elasticity of demand at  $p = 3$ .



z) If  $f(x, y) = \frac{xy}{x^2+y^2}$  then find  $f_x$  and  $f_y$  at  $(1, 2)$ .

Q.2 Answer the following:

(5x4=20)

a) Examine the continuity of  $f$  at  $x = 3$  if

$$\begin{aligned} \text{If } f(x) &= x^2+1 & 0 \leq x < 3 \\ &= 3x+1 & 3 \leq x \leq 6 \end{aligned}$$

b) Solve for  $x$  for following:

$$\text{i) } \frac{x-5}{x+4} = \frac{2}{3} \quad \text{ii) } \frac{-3}{x} = \frac{5}{2x} = -6$$

c) Find  $\frac{d^2y}{dx^2}$  for the following:

i)  $y = \log x$

ii)  $y = 4x - 5$

d) i) Define Discount

ii) A Bike of Rs. 75000 is for sale for 60,000, what is its discount rate ?

OR

Q.2 Answer the following:

(5x4=20)

w) Find  $\lim_{x \rightarrow 2} \frac{\sqrt{x+2}-2}{x^2-4}$

x) After allowing a discount of 10% on the market price of an article a dealer gain 8%, by what % is the market price above cost price ?

y) Find Higher derivative of the function  $y = x(5^x)$

z) If  $\frac{3}{x+2} = \frac{x-3}{2x+4}$  then find  $x$ .

Q.3 Answer the following:

a) Find the equation of line if it

(5x4=20)

i) passing through the points  $(3, 4)$  and  $(-1, 2)$

ii) having slope as 2 and  $y$ - intercept -1.

b) Solve the following LPP graphically,

$$\text{Maximize } Z = 9x + 13y$$

$$\text{Subject to } 2x + 3y \leq 18$$

$$2x + y \leq 10, \quad x \geq 0, \quad y \geq 0.$$

c) Show that  $(3, -5)$ ,  $(4, 3)$  and  $(11, -4)$  are the vertices of an isosceles triangle.

d) If  $A(1, -2)$ ,  $B(-2, 3)$  and  $C(2, -5)$  are the vertices of triangle ABC, find the equation of median BD.

OR

Q.3 Answer the following:

(5x4=20)

w) Find the equation of line if it

i) passing through the points  $(4, -3)$  and having slope  $-2$

ii) having x and y- intercepts 8 and 12

x) Solve the following LPP graphically,

$$\text{Minimize } Z = 5x + 2y$$

$$\text{Subject to } 10x + 2y \geq 20$$

$$5x + 5y \geq 30, \quad x \geq 0, \quad y \geq 0.$$

y) Find the co ordinates of the point on x-axis which are at a distance of 10 units from the point  $(3, -6)$

z) By using slopes Prove that ABCD is parallelogram, if  $A = (2, 5)$   $B = (3, -2)$   $C = (-4, 1)$  and  $D = (-5, 8)$

Q.4 Answer the following:

(5x4=20)

a) Find  $\frac{dy}{dx}$  for the following:

i)  $y = (e^x - 5x + 2)^8$     ii)  $y = \sqrt{3^x + 2}$

b) Find i)  $\int_2^3 (\log x) dx$     ii)  $\int_1^2 (3x - 1)(x + 5) dx$

c) The supply function for a certain commodity at  $p = 6x - 7$ . Find the producer's surplus at  $x = 3$ .



d) Evaluate i)  $\int \frac{1}{x^{2/7}} dx$

ii) If  $f(x) = 2x$  and  $g(x) = 4x + 1$ , find  $f[g(x)]$  and  $g[f(x)]$ .

OR

Q.4 Answer the following:

(5x4=20)

w) Evaluate i)  $\int \sqrt{x} dx$

ii) If  $f(x) = 3x + 6$  and then find  $f(-2)$  and  $f(2)$

x) The demand function for a certain commodity at  $p = 100 - 5x$  then find the consumer's surplus at  $x = 4$ .

y) Evaluate  $\int_0^5 \frac{(x^2 - 5x + 6)}{x - 3} dx$

z) Find  $\frac{dy}{dx}$  for  $y = \frac{(x-1)^2}{e^x}$

Roll No:

Total No: of Questions: 4

Total No: of pages: 4

**B.Com Semester End Repeat Examination**

**Mathematical Techniques-II**

**Semester No:II**

Duration: 2 Hrs.

Maximum Marks: 80

**Instructions:** 1) All Questions are Compulsory.

2) Figures to right indicate marks.

3) Start each new question on a fresh page.

4) On request graph will be provided.

5) Use of programmable calculators are not allowed.

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Q.1 Answer the following:

(5x4=20)

a) If  $f(x) = x^2 - 5x + 5$ ,  $0 \leq x \leq 6$ , find  $f(2)$ ,  $f(3)$ ,  $f(7)$ . Also find  $x$  if  $f(x) = 0$ .

b) Examine the continuity of  $f$  at  $x = 4$  if

$$\text{If } f(x) = x^2 + x + 2 \quad 2 \leq x \leq 4$$

$$= 3x + 4 \quad 4 < x \leq 6$$

c)  $\lim_{x \rightarrow 2} \left[ \frac{1}{x^2 + x + 6} + \frac{1}{x^2 - 9x + 14} \right]$

d) If  $f(x) = 3x - 1$  and  $g(x) = x^2 + 1$ , find  $f[g(x)]$  and  $g[f(x)]$ .

**OR**

Q.1 Answer the following:

(5x4=20)

w) If  $f(x) = x^2 + 2x + 5$ , find  $x$ , if  $f(x+1) = f(x-1)$ .



x) If  $f$  is continuous at  $x=2$ , where

$$f(x) = x^2 - x + 1 \quad 0 \leq x \leq 2$$

$$= 5x + a \quad 2 < x \leq 4 \quad \text{then find } a.$$

y) If  $f(x, y) = x^2 + 2xy + y^2$ , find  $f_x$  and  $f_y$  at  $(1, 2)$

$$z) \text{ Find } \lim_{x \rightarrow 4} \frac{x^3 - 3x^2 + 4}{x^3 - 2x^2 - 4x + 8}$$

**Q.2** Answer the following:

**(5x4=20)**

a) If  $A(4, 7)$ ,  $B(8, 4)$  and  $C(7, 11)$  form  $\triangle ABC$ , show that  $\triangle ABC$  is right angled.

b) If  $A(2, -5)$ ,  $B(-2, 1)$  and  $C(4, 7)$  are the vertices of triangle  $ABC$ , find the equation of the altitude  $AM$ .

c)  $P$  divides the line  $AB$  internally in the ratio  $3 : 2$ . If  $A(1, -2)$  and  $P(4, 7)$ , find the co-ordinates of  $B$ .

d) Show that  $(3, -5)$ ,  $(4, 3)$  and  $(11, -4)$  are the vertices of an isosceles triangle.

**OR**

**Q.2** Answer the following:

**(5x4=20)**

w) A line makes equal intercepts on the co-ordinate axes and passes through  $(2, 4)$ , find its equation.

x) Show that the points  $(3, 1)$ ,  $(-1, 9)$  and  $(4, -1)$  are collinear.

y) Write condition of concurrency and show that the lines  $2x+3y+1=0$ ,  $x+2y+1=0$  and  $x+y=0$  are concurrent.

z) Find the equation of line if it

i) passing through  $A(4, -3)$  and having slope as  $-2$ .

ii) passing through the points  $A(1, 6)$  and  $B(-5, 0)$ .

**Q.3** Answer the following:

**(5x4=20)**

a) The demand function for a certain commodity at  $p = 100 - 5x$ . find the consumer's surplus at  $x = 4$ .

b) Find i)  $\int_1^2 (9 - 6x) dx$

ii)  $\int_{-1}^1 (x + 1) dx$



c) Find  $\frac{dy}{dx}$  for the following:

10

i)  $y = (3x + 5)$

ii)  $y = e^{x^3}$

d) Evaluate i)  $\int \frac{x-3}{x} dx$

ii)  $\int \sqrt{x} dx$

OR

Q.3 Answer the following:

(5x4=20)

w) Find  $\frac{dy}{dx}$  for the following:

i)  $y = \log x(x^3 - 4x)$

ii)  $y = (2x-5)^2$

x) Find the maximum values of  $f(x) = x^3 - 6x^2 + 9x$ .

y) The supply function for a certain commodity at  $p = 6x - 7$ . Find the producer's surplus at  $x = 3$ .

z) Evaluate  $\int_1^3 \frac{(x^2 + 3x + 2)}{x + 1} dx$

Q.4 Answer the following:

(5x4=20)

a) Solve the following LPP graphically,

Minimize  $Z = x + 4y$

Subject to  $x + 3y \geq 3$

$2x + y \geq 2, \quad x \geq 0, y \geq 0.$

b) If  $f(x,y) = x^3 + 5xy + y^2 - 3x + 10$  find  $f_x$  and  $f_y$  at  $(1,4)$ .

c) If the demand function given by  $D = 15 - 4p - p^2$ , find price elasticity of demand at  $p = 2$ .

d) The cost function  $C = x^2 + 5x + 5$ , find average and marginal cost at the point 10.

OR



**Q.4** Answer the following:

**(5x4=20)**

**w)** The total cost of  $q$  is given by  $C=15e^q+2$ , find the marginal cost when  $q = 3$ .

**x)** If  $f(x,y)=ye^x+xlogy+x^2y^2+1$  at the point  $(0,1)$ . Find  $f_x$  and  $f_y$ .

**y)** Find the extreme values of the function  $f(x)=2x^3-15x^2+36x+5$ .

**z)** Solve the following LPP graphically,

$$\text{Maximize } Z= 9x+13y$$

$$\text{Subject to } 2x+3y \leq 18$$

$$2x+y \leq 10, \quad x \geq 0, y \geq 0.$$



Roll No:

Total No of Questions: 06

Total No: of pages: 02

**B.Com Semester End Examination**

**Managerial Economics**

Semester: II

Duration: 2 Hrs.

Maximum Marks: 80

- Instructions:** 1.) Figures to the right indicate maximum marks  
2.) All questions are compulsory. However internal choice is given.  
3.) Start each new questions answer on a fresh page.

**Q.1) Answer any FOUR questions**

**( 4x4 = 16 marks )**

- i. State the advantages and disadvantages of Marginal Cost pricing.
- ii. Explain Perceived Value as a form of pricing strategy.
- iii. Elaborate on Loss Leader Pricing strategy.
- iv. Define profit.
- v. Explain the different methods of Profit Forecasting.
- vi. State the assumptions of Break-Even Analysis.

**Q.2) Answer any FOUR questions**

**( 4x4 = 16 marks )**

- i. Explain how a firm will develop its investment proposals.
- ii. Explain in brief the concept of Social Cost-Benefit.
- iii. State the approaches to determine the size of Capital Budget.
- iv. Business decision making involves choices between various strategies. Justify.
- v. What do you understand by Finite Horizon Method of selecting a project.
- vi. Elaborate on sources of Business Risk.



( 1x12 = 12 marks)

**Q.3) Answer any ONE question**

i. Explain Product Life Cycle as a pricing strategy.

**or**

ii. Write a note on Cyclical Pricing.

( 1x12 = 12 marks)

**Q.4) Answer any ONE question**

i. Write a note on Break-Even Analysis.

**or**

ii. Elaborate on Kinds of Profit and Role of Profit.

( 1x12 = 12 marks)

**Q.5) Answer any ONE question**

i. State the various factors influencing Investment Decisions and comment on the approaches followed to determine the size of Capital Budget.

**or**

ii. Write a note on Social Cost-Benefit Analysis.

**Q.6) Answer any ONE question**

( 1x12 = 12 marks)

i. A decision maker must make correct choices in risky situations. Justify.

**or**

ii. Write a note on Game Theory.

Roll No:

Total No of questions: 4

Total No of pages: 3

**B.Com Semester End Examination**

**Mathematical Techniques II**

**Semester II**

Duration: 2Hrs.

Maximum Marks: 80

**Instructions:**

1. All questions are compulsory. However internal choice has been provided.
2. Figures to right indicate full marks.
3. Use of non-programmable calculators are allowed.
4. Graph paper will be provided on request.

**Q1 Attempt the following**

**(5 x 4 = 20)**

- a) Find the time period for which Rs.6,000 at 4% p.a. produce the same income as Rs.12,000 in 3 years at 5% p.a. simple interest?
- b) Find the equation of line passing through the point (-1, 3) with slope  $3/2$ .
- c) Find the range of the function  $f$  given as:  
$$f(x) = 3x - 4; \text{ for } -1 \leq x \leq 3$$
- d) Find  $\frac{dy}{dx}$  if
  - i)  $y = x^2 e^x$
  - ii)  $y = (x^2 - 5x + 4)^4$
- e) Show that the points A(1,2), B(0,-5), and C(3,-4) are the vertices of a right angled triangle.

**OR**

- p) At what % rate of interest, the simple interest of Rs.675 will be Rs.168.75 in 4 years?
- q) L(1,2) and N(3,4) are two points. If M is the mid-point of segment LN, and the co-ordinates of the point M.
- r) If  $f(x) = ax + 6$ , and  $f(1) = 11$  find a.
- s) Differentiate with respect to x
  - i)  $y = \frac{2x-1}{5x-2}$
  - ii)  $y = (2x^2 + x + a^x)^{\frac{3}{2}}$
- t) Find the equation of the line passing through the point of intersection of the lines  $2x + y = 3$ ,  $x - 3y = 12$  and through the point (2, 3).



**Q2 Attempt the following.****(5 x 4 = 20)**

- a) Find the value of  $x$  if the triangle whose vertices are  $A(x, -4)$ ,  $B(2, 3)$  and  $C(4, -1)$  is right angled at  $C$ .
- b) Find the interest on Rs. 10000 at 4% p. a. compounded for 5.5 years.
- c) Find  $\lim_{x \rightarrow 1} \left( \frac{1}{x-1} - \frac{1}{x^2-x} \right)$
- d) Evaluate the following integral:  $\int (2x - 3)(x + 1) dx$
- e) The total revenue  $R$  of a firm when demand for its good is given by  $R = 15x - 2x^2 - x^3$ . Find the average revenue and the marginal revenue when the demand  $x=2$ .

**OR**

- p) If  $A$  is  $(4, -7)$  and  $B(-3, 8)$ , find the co-ordinate of the points which divides  $AB$  internally in the ratio 3:5.
- q) Find the future value of Rs. 10, 00,000 after 4 years if the compound interest rate is 7% p.a.
- r) Examine for continuity at  $x=0$ , the function

$$f(x) = \begin{cases} \frac{\sqrt{2+x} - \sqrt{2-x}}{x} & \text{for } x \neq 0 \\ 0 & \text{for } x = 0 \end{cases}$$

- s) Evaluate the following integral:  $\int x^3(2x + 7) dx$
- t) The amount of Rs. 1, 44,000 at 10% p.a. compound interest rate for 3 years equals the amount of a sum of money at 20% p.a. compound interest rate for 2 years. Find the sum.

**Q3 Attempt the following.****(5 x 4 = 20)**

- a) Solve the following L.P.P. by graphical method.

$$\text{Maximize } Z = 9x + 13y \text{ subject to}$$

$$2x + 3y \leq 18$$

$$2x + y \leq 10$$

$$x \geq 0; y \geq 0$$

- b) Find the range of the function given by  $f(x) = 3x - 4$  for  $1 \leq x \leq 3$
- c) If  $p = 100 - 3D - D^2$  is a demand function, find elasticity of demand when  $D = 2$ .

d) If  $z = x^3 + x^2y + y^3$  find  $x \frac{\delta z}{\delta x} + y \frac{\delta z}{\delta y}$

- e) Differentiate  $y = (x^3 + 4)x^2$  with respect to  $x$ .

**OR**

- p) Solve the following L.P.P. by graphical method.

$$\text{Minimize } Z = x + 4y \text{ subject to}$$

$$x + 3y \geq 3$$

$$2x + y \geq 2$$



- $x \geq 0; y \geq 0;$
- q) The supply function for a commodity is given by  $D = 20 - 3p - 3p^2$  where  $D$  is demand and  $p$  is price. Find the price elasticity of supply when  $p=3$ .
- r) If  $z = 3x^2 + 2xy + 5xy^2$  find  $\frac{\partial^2 z}{\partial x \partial y}$  and  $\frac{\partial^2 z}{\partial x^2}$
- s) A sum of money amounts to Rs.45, 980 in 3 years and to Rs.48, 640 in 4 years at a certain rate of simple interest. Find the sum and rate.
- t) Differentiate  $y = \frac{x^2-1}{x+1}$  with respect to  $x$ .

**Q 4 Attempt the following.**

**(5 x 4 = 20)**

- a) Find the equation of the line passing through the points (3,-2) and (1, 2).
- b) A sum of money is invested for 2 years at a certain rate. If it had been invested at a rate 3 % higher than the present rate, it would have given Rs.1, 300 more as simple interest. Find the sum.
- c) Evaluate the integral  $\int_0^2 (2x + 3)dx$ .
- d) Find the total revenue function and demand function, if the marginal revenue function is given as  $MR = 7 - 4x$ .
- e) The demand function for a commodity is  $p = 20 - 2D - D^2$ . Find the consumers surplus when  $D_1= 3$ :

**OR**

- p) Find the equation of the line passing through (5,-1) and having slope  $-\frac{1}{2}$ .
- q) In how many years would Rs. 4, 30,000 become Rs. 4, 97,778.75 at 5% p.a. compound interest?
- r) Find the value of  $\int_0^3 x(x-1)dx$ .
- s) The supply function for a commodity is  $p = q^2 + 20$ . Find the producers surplus when the price per unit of the commodity is Rs.25.
- t) The cost function is given by  $C = 3x^3 + 5x^2 + 4$ . Find the average cost and marginal cost. Also find the average marginal cost when  $x=5$ .

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Roll No:

Total No: of Questions: 6

Total No: of pages: 1

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**B.Com Semester End Examination**

**Introduction to Marketing**

**Semester: II**

Duration: 2 Hrs.

Maximum Mark: 80

- Instructions**
- 1) All questions are compulsory.
  - 2) Figures to the right indicate maximum marks.
  - 3) Start each new question in a fresh page.

Q1. Answer **ANY FOUR** of the following (16)

- a) Specialty goods
- b) Selling V/s Marketing
- c) Features of Marketing
- d) Factors influencing consumer behavior
- e) Marketing Survey
- f) Market Segmentation

Q2. Answer **ANY FOUR** of the following (16)

- a) Promotional decisions
- b) Sales Management
- c) Physical Distribution
- d) Ethical aspects of Marketing
- e) Kiosk Marketing
- f) Marketing of Services

Q.3 A) What is marketing? Explain its importance (12)

OR

Q.3 B) Explain the different concepts used in marketing? (12)

Q.4 A) Explain the Macro & Micro environmental factors affecting the marketing environment. (12)

OR

Q.4 B) What is Market segmentation? Explain the different bases for segmenting markets. (12)

Q.5 A) Explain the various types of Marketing Mix Decisions? (12)

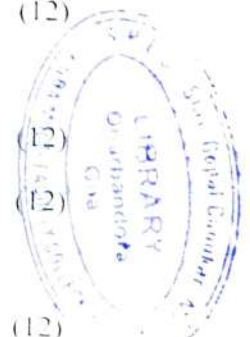
OR

Q.5 B) What is sales force management? Explain its importance in business. (12)

Q.6 A) Explain in detail Social Responsibility of Marketing (12)

OR

Q.6 B) What is Online marketing? What are the advantages of Online marketing (12)



Roll No:

Total No: of Questions: 6

Total No: of pages: 1

**B.Com Semester End Examination**

**Introduction to Marketing**

**Semester: II**

Duration: 2 Hrs.

Maximum Marks: 80

**Instructions: 1) All questions are compulsory.**

**2) Figures to the right indicate maximum marks.**

**3) Start each new question in a fresh page.**

Q1. Answer **ANY FOUR** of the following

- a) Convenience goods (16)
- b) Four P's of marketing Mix
- c) Selling V/s Marketing
- d) Consumer behavior
- e) Importance of Marketing Research
- f) Need for segmentation

Q2. Answer **ANY FOUR** of the following

- a) Inventory management (16)
- b) Purchase procedure
- c) Selection & Training of employees
- d) Social responsibility of marketing
- e) Consumer protection
- f) Online marketing

Q.3 A) What are Marketing concepts? Explain the different types of marketing concepts. (12)

OR

Q.3 B) What is Marketing? Explain the scope of marketing. (12)

Q.4 A) Explain the concept of marketing environment? What are the major environmental factors affecting market environment. (12)

OR

Q.4 B) What is Market segmentation? Explain the different bases for segmenting markets. (12)

Q.5 A) What are the various types of marketing mix decisions? (12)

OR

Q.5 B) What is sales management? Explain its importance in present business environment. (12)

Q.6 A) Explain the concept of consumerism? Why there is need for consumer protection (12)

OR

Q.6 B) What is Direct Marketing? Explain the different channels of direct marketing (12)

