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B.Com SEM I

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Question Papers

SSPES's
GOA MULTI-FACULTY COLLEGE
DHARBANDORA, GOA
B.com Semester End Examination, October 2014

22/10/14

Semester I

Total No. of Questions: 06

Duration: 2 Hrs.

Financial Accounting I

Total No. of pages: 04

Maximum Marks: 80

Instructions: 1) Question No. 1 is Compulsory.

2) Answer any 3 Questions from Q.No.2 to 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.

6) Show important working notes as fair work.

Q1. A second hand machinery was purchased on 1st January 2008 for Rs. 400000. Overhauling and installation expenses for the machine amounted to Rs. 100000. Another machine was purchased for Rs. 200000 on 1st July 2008.

On 1st July 2010, the machinery installed on 1st January 2008 was sold for Rs. 250000. Dismantling charge for the machine sold were Rs. 10000. On the same date, another machine was purchased for Rs. 800000 and was commissioned on 30th September 2010. The company had adopted calendar year as its financial year. Under the existing practice the company provides 10% p.a. on original cost.

In 2011 it is decided that depreciation will be charged on the diminishing balance method @ 10% p.a. The change is not to be made with retrospective method.

Show Machinery Account for 2008 to 2012.

(20)

Q2. The following balances are available from the books of Sanjay as on 31/12/2010 and 31/12/2011.

Particular	31/12/2010	31/12/2011
Building	60000	60000
Equipment	120000	134000
Furniture	10000	10000
Debtors	?	48000
Creditors	32000	?
Stock	?	34000

Bank Loan	20000	16000
Cash	32000	22000

The transaction of Sanjay during the year ended on 31/12/2011 were the following:

Collection from Debtors Rs. 1,86,000; Payment to Creditors Rs. 1,22,000; Cash Purchase Rs. 32,000; Expenses Rs. 20,000; Sale of one Equipment (book value Rs. 10,000) Rs. 6000; Drawing Rs. 20,000.

Cash Sales amounted to 10% of total sales. Credit Sale amounted to Rs. 1,80,000. Credit purchases were 80% of Total Purchases. Sanjay sells goods at cost plus $33\frac{1}{3}\%$. His suppliers allowed him discount Rs. 2000.

Equipment and Furniture are to be depreciated by 10% p.a. and building by 2% p.a.

Prepare Trading Account, Profit & Loss Account and Balance Sheet as on 31st December 2011. And also prepare Sundry Debtors Account and Sundry Creditors Account.

(20)

Q3. Laxmi Company purchased a Plant & Machinery for Rs. 2,00,000 on 1st April 2005 and incurred Rs. 40,000 towards freight, insurance and installation charges. It was estimated that the Plant and Machinery will have a residual value of Rs. 20,000 at the end of its useful life of 4 years. It was decided to take out an Insurance policy to provide necessary funds for the replacement of assets at the end of its useful life. The annual insurance premium for the policy on 1st April every year Rs. 52,000. At the end of the 4th year the company realized residual value Rs. 20,800 and from the insurance company Rs. 2,20,000.

Prepare Insurance Policy Account, Assets Account and Depreciation Fund Account.

(20)

Q4 Lion and Tiger were in partnership sharing profits and losses in the ratio of 3:1. The following is the Balance Sheet of the Partnership as on 31st March 2012.

Liabilities		Assets	
	Amount		Amount
Capital Account		Fixed Assets	21000
Lion	24000	Stock	11200
Tiger	8000	Debtors	19600
Current Account		Cash at Bank	3720
Lion	4200		
Tiger	2000		
Loan from Tiger	3000		
Creditors	14320		
	55520		55520

Elephant Ltd. agreed to take over Stock and Fixed Assets, excluding the value of Motor car Rs. 4,100 for a consideration of Rs. 48,000 which is to be satisfied by payment of cash Rs. 16,000, allotment of 160 Preference Shares of Rs. 100 each valued at Rs. 75 per share, and balance by allotment of 1,600 Equity shares of the face value of Rs. 10 each.

The Debtors realized Rs. 19,200 and the Creditors were settled for Rs. 14,000.

The following were agreed between the partners.

- The Equity Shares should be allotted in the ratio of the Partners' Capital Account as per the Balance Sheet.
- Lion to take over the Motor Car at an agreed value of Rs. 4,200.
- The Preference Shares to be allotted to Tiger to the value of his Loan and the remainder to be allotted equally between the partners.
- Balance remaining to be settled in Cash

Pass necessary Journal Entries in the books of Elephant Ltd. and also the balance Sheet in the Ltd. Company.

(20)

Q5. A. Mr. A keeps his books by Single Entry. On 1.1.2008 his Capital was Rs. 69,000. An analysis of his Cash Book for the year gives the following particular:

Cash Book			
Debit Side	Amount	Credits Side	Amount
Received from Debtors	60,000	Due to Bank (January 1 2008)	7,400
Paid in on Capital Account	5,000	Payment to Creditors	25,000
		General Expenses	10,000
		Wages	15,500
		Drawing	3,000
		Bal. at Bank	4,000
		Bal. in Hand	100
	65,000		65,000

Assets and Liabilities as follows:

Particular	1.1.2008	31.12.2008
Debtors	53,000	88,000
Creditors	15,000	19,500
Stock	17,000	19,000
Plant & Machinery	20,000	20,000
Furniture	1,400	1,400

From the following above information prepare Trading and Profits & Loss Account as on 31st Dec. 2008 as at that date after providing 5% Interest on Capital, 10% Depreciation on Plant and reserve at 5% on Sundry Debtors.
Cash Purchases amounted to Rs. 29,500. (10)

Q5B. Prepare Cheque voucher of State Bank of India, Curchorem Branch dated on 1st April 2012. Pay to XYZ, Cheque No. "11111" Account No. 31362935400. Amount Rs. 25,000 (10)

Q6. Answer the following question. (Any four) (4*5)

- 1) Explain features of accounting. (Any five).
- 2) Explain different types of voucher.
- 3) Explain any two concepts and two conventions of Accounting.
- 4) Difference between Service hour method and Machine Hour rate method (any three points)
- 5) Distinguish between Single Entry System and Double Entry System.

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B.com Semester End Examination, October 2014

Sem ester I
Total No. of Questions: 06
Duration: 2 Hrs.

Financial Accounting I
Total No. of pages: 03
Maximum Marks: 80

Instructions: 1) Question No. 1 is Compulsory.

- 2) Answer any 3 Questions from Q.No.2 to 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.
- 6) Show important working notes as fair work.

Q1. Zee Company Ltd. purchased a four year lease on 1st January 2006 for Rs. 50000. It is decided to provide for the rental of the lease at the end of four years by setting up a depreciation fund. It is expected that investment will fetch interest at 4% p.a. The Sinking fund table shows that 0.235490 invested each year will produce Re. 1 at the end of the four year at 4 % p.a.

On 31st December 2009, the depreciation fund investments are sold for Rs. 36,455.22. On 1st January, 2010, the same lease is renew for a further period of four years by paying

Prepare Depreciation Fund Account, Lease A/c, and Depreciation Fund Investment Account for first four years.

(20)

Q2. A, B and C were partners in business sharing profits and losses in the ration of 5:3:2 respectively. Their Balance sheet as at 31/3/2007 is as follows:

Liabilities	Amount	Assets	Amount
Capital:		Sundry Assets	1,88,400
A	94,000	Cash	2,700
B	61,000	Bank Balance	5,500
C	26,000		
Creditors	15,600		
	1,96,600		1,96,600

On 1st April 2007 they sold their business including the bank balance to XYZ Ltd. on the following terms:

- The company to satisfy the purchases consideration by issue of Rs. 25,000 6% Debenture, 9,600 equity shares of Rs. 8 each at a premium of Rs. 2 per share; and Rs. 72,000 8% Preference Shares of Rs. 100 each.
- The partners will draw the cash before transfer to the company and divide the same equally among them.
- Out of the purchases consideration the Debentures and Preference Shares are agreed to be divided as follows:
Debenture: A -Rs.16,000; B- Rs. 9,000. Preference Shares to be shared by all in proportion to original capital amount after adjustment of Debenture value as above.
Draw up Realisation Account and the Partners Capital Account showing distribution of shares amongst them in the Partnership firm and also pass journal entries in the books of Ltd. Company.

(20)

Q3. Mr. Sri purchased a plant on 1st March 2005 for a sum of Rs. 50,000 having a useful life of 5 years. It is estimated that the plant will have a Scrap value of Rs. 8,000 at the end of its useful life. Mr. Sri decides to charge depreciation according to Depreciation Fund method. The Depreciation Fund Investment are expected to earn interest @ 5% p.a. Sinking Fund table shows that Re. 0.18100 if invested yearly at 5% p.a. to produce Re.1 at the end of 5 years. The investment are sold at the end of 5th year for a sum of Rs. 32500. A new plant is purchased for Rs. 120000 on 1st January 2010. The scrap of the old plant realizes Rs. 8500.

You are required to prepare the following accounts in the books of Sri.

- Plant Account,
- Depreciation Fund Account,
- Depreciation Fund Investment Account.

(20)

Q4A. Shisha submits the following information for the year ending on 31st March 2012. The Assets & Liabilities are as follows:

Particular	1/4/2011	31/3/2012
Stock	20,000	15,000
Bank	8,000	12,000
Cash in hand	300	400
Debtors	14,000	20,000
Creditors	27,300	30,000
Investment	50,000	50,000

Other cash transaction held during the year.

Credit Purchases. Rs. 1,62,700; Wages Rs. 40,000; Delivery Exp. Rs. 7,000; Rents Rs. 2,000; Lighting & Heating Rs. 1,000; General expense Rs. 4,600; Credit Sales Rs. 2,56,000

Further capital Rs. 2,000; Drawing Rs. 33,300

Prepare Trading and profits & Loss Account for the year ended on 31st March 2012

(10)

Q4B. Prepare Cash Deposit voucher of HDFC Bank. Name of Vinod M. resident of Margao deposited cash of Rs. 30,000 in HDFC Margao Goa. Account No. 5010000045934, dated on 1st Oct. 2014.

(10)

Q5. Suman keeps her book under Single entry system. Her capital as at 1/1/2002 was Rs. 60,000. An abstract of her Cash transactions for the year ended on 31/12/2002 was as follows:

Particular	Rs.	Particular	Rs.
Bal. b/d	10,000	Cash purchases	15,000
Cash sales	40,000	Wages	20,000
Collection from Drs.	60,000	Payment to Crs.	28,000
Capital further introduced	10,000	B/P paid	14,000
B/R collected	20,000	Salaries	8,000
		General Exp.	4,000
		Drawing	15,000
		Plant Purchased on 1/7/2012	10,000
		Bal. C/d	26,000
	1,40,000		1,40,000

Other particular of her assets & liabilities as on 1/1/2012 and 31/12/2012 were as follows:

Particular	1/1/2012	31/12/2012
Plant	20,000	30,000
Furniture	2,000	2,000
B/P	8,000	10,000
B/R	9,000	13,000
Sundry Drs.	22,000	25,000
Sundry Crs.	15,000	16,000
Stock in trade	20,000	15,000

You are required to draft a trading & Profits and Loss account for the year ended on 31/12/2012 and a Balance Sheet as on the date after providing for 5 % interest on Initial Capital & 2 ½ of further introduction, 5% reserve for doubtful debts, 2 ½ reserve on B/R, 10% Depreciation on Plant & 6% Depreciation on Furniture.

(20)

(4*5)

Q6. Answer the following question. (Any four)

A. Explain causes of Depreciations. (Any 4).

B. Explain Annuity method of Depreciation.

C. Explain any two concepts and two conventions of Accounting.

D. Distinguish between Single Entry System and Double Entry System.

E. Explain consequences of Conversion of partnership firm into limited company.

SSPES's
GOA MULTI-FACULTY COLLEGE
DHARBANDORA – GOA

SEMESTER END EXAMINATION - I, OCTOBER 2014

Class : FY B.Com

Sub: COST ACCOUNTING

Max Marks: 80

Duration: 2 Hours

- Instructions:** 1) Q. No. is 1 compulsory
2) Answer any three from Q.No.2 to Q. No. 6
3) Figures to the right indicate maximum marks.
4) Start each new question in a fresh page.

Q1. Answer **ANY FOUR** of the following (20 marks)

- a) Cost accounting v/s Financial accounting
- b) Importance of cost accounting system
- c) Economic order quantity
- d) Centralized purchasing
- e) Benefits of cost accounting

Q.2

a) When tenders were invited for a store, quotations were received as under (12 marks)

Supplier A

(a) Rate Rs. 2 each (b) Trade discount 10% (c) Cash discount 5% if bills are paid within a fortnight after receipt (d) Transport charges Rs.1 per 100 units.

Supplier B

(a) Rate Rs.1.80 each (upto 1000 units), Rs.1.60 each (for orders above 1000 units) (b) 6% interest per annum will be added if bills are not paid within fortnight after receipt of the materials (c) Transport charges Rs.3 per 100 units

Assuming about 5000 units are required every month and that quality and other conditions of supply are the same, offer your comments as to whom purchase order can be issued. The factory pays 50% of its total monthly bills every fortnight.

b) Explain the materials purchase procedure (8 marks)

Q.3 The following is the summary of the receipts and issues of material in a factory during December 2007. Prepare Store Ledger according to First In First Out Method and Last in First out method

December 2007

(20 marks)

1. Opening balance 500 units @ Rs.25 per unit
3. Issue 70 units
4. Issue 100 units
8. Issue 80 units
13. Received from supplier 200 units @ Rs.24.50 per unit
14. Returned 15 units @ Rs.24 per unit
16. Issue 180 units.
20. Received from supplier 240 units @ Rs.24.75 per unit
24. Issue 304 units.
25. Received from supplier 320 units @ Rs.24.50 per unit
26. Issue 112 units
27. Returned 12 units @ Rs.24.50 per unit
28. Received from supplier 100 units @ Rs.25 per unit

It was revealed that on 15th there was a shortage of 5 units and another on 27th of 8 units.

Q.4

a) From the details given below, calculate: (10 marks)

(i) Re-ordering Level

(ii) Maximum Level

(iii) Minimum Level

(iv) Danger Level

Annual usage 200 units

Cost of placing a purchase order is Rs. 20

Annual cost of storage per unit is Rs. 5

Details of lead time: Average 10 days, Maximum 15 days, Minimum 6 days. For emergency purchases 4 days

Rate of Consumption Average : 15 units per day, Maximum : 20 units

b) Explain the various methods of material pricing (10 marks)

Q.5

a) From the following information, prepare Store Ledger using Last In First Out [LIFO] and Weighted Average Method of pricing the issues

(10 marks)

December 1st: Balance in hand 1000 units @ Rs.1 each.

December 15th: Received 3000 units costing Rs.3, 300

January 12th: Received 2000 units costing Rs.2400

January 30th: Issued 2000 units

February 17th: Issued 3400 units.

b) What is stores control? Explain the various aspects of stores control

(10 marks)

Q.6 From the following particulars prepare cost sheet for the year ended 31 Dec 2013 (20 marks)

Particulars	Rs	Particulars	Rs
Raw materials	33000	Office stationery	900
Productive wages	38000	Rent and taxes(office)	500
Unproductive wages	10500	Water supply(works)	1200
Factory rent and taxes	7500	Factory insurance	1100
Factory lighting	2200	Office insurance	500
Factory heating	1500	Legal expenses	400
Motive power	4400	Rent of warehouse	300
Haulage(works)	3000	Depreciation(plant)	2000
Directors fess(works)	1000	Depreciation(office building)	1000
Directors fess(office)	2000	Depreciation (Delivery vans)	200
Factory cleaning	500	Bad debts	100
Sundry office expenses	200	Advertising	300
Estimating expenses(works)	800	Sales department salaries	1500

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DHARBANDORA – GOA

SEMESTER END EXAMINATION - I, OCTOBER 2014

Class : FY B.Com

Sub: GENERAL MANAGEMENT

Max Marks: 80

Duration: 2 Hours

- 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)
- g) Management v/s Administration
 - h) Features of management
 - i) Creativity in decision making
 - j) Advantages of decision making
 - k) Logistics management
 - l) inventory management
- Q.2 Answer **ANY FOUR** of the following (16)
- g) marketing management
 - h) Japanese VS American style of management
 - i) Financial management
 - j) difficulties in decision making
 - k) Bureaucratic approach to management
 - l) Rationality in decision making
- Q.3 Explain the Scientific approach to management (12)
- OR
- Q.3 What is management? Explain its importance in business (12)
- Q4. What are the steps involved in decision making process (12)
- OR
- Q.4 Explain the Behavioral approach and Quantitative (12)
- Q.5 What are the different types of managerial decisions (12)
- OR
- Q5. What is Stress management? Explain the various types of stress (12)
- Q.6 What is Disaster management? Explain the various types of Disaster (12)
- OR
- Q.6 Supply Chain Management and its process (12)

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GOA MULTI FACULTY COLLEGE
Dharbandora –Goa
Semester End Examination – I, October 2014

Class- F.Y.B.com
Duration- 2 Hours

Sub- Business Economics
Marks- 80

General Instructions:

1. **Figures to the right indicate full marks.**
2. **Answer each question on fresh page.**
3. **All diagrams should be drawn in black lead pencil.**
4. **All Questions are compulsory**

Q.1. Answer any four of the following.

4X4=16

- a) Significance of Demand Forecasting.
- b) Characteristics of Monopolistic competition
- c) The principle of opportunity cost.
- d) Exceptions to the law of supply.
- e) Internal economies of scale.
- f) Characteristics of Business Economics.

Q.2. Answer any four of the following.

4X4=16

- a) Principle of Time Perspective
- b) Relationship of Business Economics with Mathematics.
- c) The discounting principle.
- d) Determinants of supply.
- e) Explain the properties of Iso-quant.
- f) Explain the Principle of incremental cost and revenue.

Q.3. A) Explain the different types of Price Elasticities of demand. (12)

OR

B) Explain the different types of Income elasticities of demand. (12)

Q.4.A) Explain the Law of Variable Proportions (12)

OR

B) Explain the meaning and features of Perfect competition. (12)

Q.5. A) What are the steps for decision making in Business? (12)

OR

B) Explain the law of demand with the help of diagram. (12)

Q.6.A) Explain the concept of Consumer's Surplus with the help of diagram. (12)

OR

B) Explain the determination of equilibrium price under perfectly competitive Market. (12)

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DHARBANDORA GOA
Semester End Examination I, October 2014

Class : Fybcom
Max mark: 80

Sub: Mathematical Technique
Duration : 2hrs

- INSTRUCTIONS:**
- 1) All questions are compulsory (choice is internal)
 - 2) Start each new question on fresh page
 - 3) Figures to the right indicate full marks
 - 4) Calculators are not allowed
 - 5) graph paper and logbook provided on request

Q. 1 Attempt the following

(5x4=20)

a) If A = set of letters in word 'Mathematics'

B= set of letters in word "physics"

C= set of letters in word "Statistics" Verify

i) $A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$

ii) $A \cap (B - C) = (A \cap B) - (A \cap C)$

b) Write down the binomial expansion of $(1 - x)^5$

c) Find whether the following Statement is tautology, contradiction or neither

$$(p \rightarrow q) \rightarrow [(q \rightarrow r) \rightarrow (p \rightarrow r)]$$

d) Find the value of n, if $2n p_3 = 36(n p_2)$

OR

Q1 Attempt the following

(5x4=20)

w) Prove that $n(A \cup B) = n(A) + n(B) - n(A \cap B)$

x) Write down the binomial expansion of $(2x-1)^5$

y) Check the validity of argument for the following

$$P \vee q, q \rightarrow r, \sim r \text{ therefore } p$$

z) Find n if

i) $3(nP_4) = nP_5$

ii) $2nP_3 = 60nP_2$

Q.2 Attempt the Following

(5x4=20)

a) Prove that $(p \wedge \sim q) \vee (\sim p \wedge q) \equiv (p \vee q) \wedge \sim (p \wedge q)$

b) Find the value of determinant

$$\begin{bmatrix} 1 & 18 & 72 \\ 2 & 40 & 148 \\ 2 & 45 & 150 \end{bmatrix}$$

c) If $A = \begin{bmatrix} 3 & -1 & 2 \\ 4 & 3 & -5 \end{bmatrix}$ $B = \begin{bmatrix} -1 & 2 & 4 \\ 8 & -1 & 3 \end{bmatrix}$ $C = \begin{bmatrix} 8 & 2 & 4 \\ -2 & 3 & 7 \end{bmatrix}$

Verify

i. $(A+B)^T = A^T + B^T$

ii. $A - (B-C) = A - B + C$

d) For an A.P with $a=3$ and $d=8$, find n^{th} term and S_n

OR

Q.2 Attempt the following

(5x 4=20)

w) Find whether the given argument is valid

If I am right then I will win

If I win then I will be happy

If I am happy then I am right

x) Solve the equation by using Cramer's rule

$$x+2y+z=7, \quad 3x+2+5=0, \quad 2y+z=9$$

y) If $A = \begin{bmatrix} 1 & -1 \\ -1 & 1 \end{bmatrix}$ Show that $A^2=2A$

z) For an G.P $5, -5, 5, -5, \dots$ Find T_n and S_n when $n=6$

Q 3 Attempt the following

(5x4=20)

a) How many different words beginning and ending with a consonant can be formed out of the letters of the word " Chemistry"

b) If $A = \{1, 2, 3, 4\}$ $B = \{2, 4, 6, 8\}$ $C = \{3, 4, 5, 6\}$

& the universal set $X = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$

Verify i) $A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$

ii) $(A \cup B)^c = A^c \cap B^c$

c) Find the inverse of a matrix by adjoint method

$$\text{If } A = \begin{bmatrix} 1 & -1 & 2 \\ 0 & 2 & -3 \\ 3 & -2 & 4 \end{bmatrix}$$

d) Solve the following equation by using cramer's rule

$$2x - 2y + 3z - 4 = 0, \quad x + y + z - 2 = 0, \quad 3x + y - z - 2 = 0$$

OR

Q3 Attempt the following

(5x4=20)

w) Find n if $5(nP_4) = 3(n + 1P_4)$

x) if $X = \{1, 2, 3, \dots, 20\}$, $A = \{1, 3, 5, 7, 9, 11, 12, 13, 15, 19\}$

$$B = \{2, 3, 4, 7, 10, 11, 13, 15, 17, 18\}$$

$$C = \{1, 2, 4, 6, 8, 11, 12, 14, 15\}$$

Verify that

i) $A - B = (A^c \cup B^c)^c$

ii) $(B - C)^c = (B^c \cup C)$

y) If $A = \begin{bmatrix} 2 & 4 \\ 1 & 1 \end{bmatrix}$ show that $A^2 = 3A + 2I$ satisfies the equation .

z) Show that
$$\begin{bmatrix} y+z & z & y \\ z & z+x & x \\ y & x & x+y \end{bmatrix} = 4xyz$$

Q4 Attempt the following

- a) Construct the truth table for the following
 $(p \rightarrow q) \rightarrow [(q \rightarrow r) \rightarrow (p \rightarrow r)]$

b) Show that
$$\begin{vmatrix} 1 & x & x^2 - yz \\ 1 & y & y^2 - zx \\ 1 & z & z^2 - xy \end{vmatrix} = 0$$

- c) The n^{th} term of a G.P with $a = 6$ and $r = 7$ is 14406,
 Find n and calculate S_n

d) If $A = \begin{vmatrix} 2 & 3 \\ 1 & 5 \end{vmatrix}$ find the matrix x such that
 $-A - 2X = \begin{vmatrix} 1 & 8 \\ 7 & -6 \end{vmatrix}$

OR

(5x4=20)

Q.4 Attempt the Following

- w) Verify that $\sim(p \leftrightarrow q) \equiv (p \wedge \sim q) \vee (\sim p \wedge q)$

x) Find the value of the determinant
$$\begin{vmatrix} 1 & 18 & 72 \\ 2 & 40 & 148 \\ 2 & 45 & 150 \end{vmatrix}$$

- y) Find the sum of $6 + 10 + 14 + 18 + \dots + 62$

- z) Find minor and cofactor for the following matrix

$$A = \begin{vmatrix} 1 & 2 & 4 \\ 0 & -1 & 2 \\ 3 & 0 & 1 \end{vmatrix}$$

SSPES's
GOA MULTI -FACULTY COLLEGE
DHARBANDORA, GOA
Semester End Examination - I, OCTOBER 2014

Class :F.Y.BCOM

Sub: INFORMATION TECHNOLOGY

Max marks: 80

Duration: 2 Hours

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

Q.1) Write a Short Note On (Any 4)

(4x4=16 Marks)

1. Give the full form of

- a)USB
- b) IDE
- c)ASCII
- d) MMC

2. What is compression? Explain the advantages of file compression?

3. What is meant by remote backup? Give any two advantages of remote backup?

4. Explain E-Governance?

5. Give any four functions of an operating system?

6. What do you Mean by Multicast in Multimedia?

(4x4=16 Marks)

Q.2) Write a Short Note On (Any 4)

1. Give the full form of

- a) HCI
- b)SATA
- c)HDTV
- d)JPEG

2. State any 4 features of Authoring Tools?

3. What is E-Retail with Example?

4. Explain the following terms:

- a) Compiler
- b) Interpreter

5. What are the features of Operating System?

6. Explain the Different Types Of E-Commerce?

(12 Marks)

Q 3) Answer the following questions

1 Distinguish between Data and Information. Explain the various steps in information / data processing cycle with the help of a diagram?

OR

2 Explain different types of Multimedia? Explain the qualities of good information in brief?

(12 Marks)

Q 4) Answer the following questions

1. What do you mean by software? Explain the difference between application software and system software. Give two examples for each type of software?

OR

2. Explain the following terms in brief.

a) HCI

b) Mobile OS

c) Multi boot Systems

Q.5) Answer the following questions

(12 Marks)

1. What do you mean by Electronic Payment Systems and Explain the Different Types of Payment Systems?

OR

2. Explain E-Banking and Different Services provided by E-Banking?

Q.6) Answer the following questions

(12 Marks)

1. Explain Ten Commandments of Computer Ethics:?

OR

2. Explain the following terms in brief.

a) Copyright

b) Fair Use

c) Open Source Software Licenses

-----Best of Luck-----

SSPES's
GOA MULTI FACULTY COLLEGE
Dharbandora -Goa
SEMESTER END EXAMINATION-I, OCTOBER 2014.

CLASS:- F.Y.B.COM

Max marks: 80

Sub: ENGLISH

Duration: 2 Hours

INSTRUCTIONS:-

- 1) All the questions are compulsory.
- 2) Figures to the right indicate maximum marks
- 3) Question and sub-question numbers must be written clearly.
- 4) Start each new question on a fresh page.

Q. 1. Answer any four of the following

(16)

A. Insert suitable articles wherever necessary and rewrite the following.

- i. Sita is reading ___ book
- ii. You will need ___ umbrella when you go out.
- iii. ___ Street is very busy today.
- iv. She eats an apple ___ day.

B. Insert the pronoun mentioned in the brackets at the appropriate place and rewrite the sentences.

- i. ___ made this cake myself(I, me)
- ii. ___ are those people. (who, whom)
- iii. ___ is my house. (This , These)
- iv. Susan has hurt ___ (Herself, Itself)

C. Insert the correct form of tenses mentioned in the brackets at the appropriate place and rewrite the sentences.

- i. Summer ___ after winter. (come)
- ii. I am ___ badminton with a friend. (play)
- iii. I have just ___ my shower. (finish)
- iv. I ___ a new car last week. (buy)

D. Complete the following using suitable conjunctions

- i. Wait here ___ I come back.
- ii. Ram and sham have been friend's ___ childhood.
- iii. It's cold wet ___ windy today.
- iv. The animal is large ___ timid.

E. Insert suitable prepositions in the blanks and rewrite the sentences.

- i. There is a big kite ____ in the sky.
- ii. I jumped ____ the hurdle.
- iii. The temple is ____ the garden.
- iv. There is an old house ____ the hill.

F. Punctuate the following sentences and rewrite.

- i. Rohan is my good friend
- ii. Can you tell me what it is please
- iii. What a surprise
- iv. Where do they come from

Q. 2. Answer any four of the following in around 150 words.

(16)

- A. You want to sell your house, located in the outskirts of Ponda. Draft an advertisement about the same to be published in the classified columns of your local newspaper. You are Mr. Parikshit Naik. Your contact No. is (0832)2315428.
- B. Compose a note on basic parts of letters.
- C. Compose a note on Creative Writing
- D. Write a note on Advertising.
- E. Write a short note on how to improve writing abilities.
- F. Define search engines and list any five search engines widely used.

Q. 3. Read the following passage carefully and answer the questions given below

We are what we eat. The type of food we eat has both immediate and long-term effect on us, at all the three levels - the body, the mind and the spirit. Food which is *tamasik* (i.e. stale or leftover) in nature is bound to generate stress as it tends to upset the normal functioning of the human body. Fresheners should be avoided. Taking piping hot tea/milk or steaming hot food, whenever available, must be preferred. Excessive use of condiments also disturbs one's usually calm attitude. Further, it is a mistaken belief that smoking or drinking, even in moderation, relieves stress/ Simple meals with one or two food items, rather than too many lavish dishes, are advisable. Thus, vegetarian diet is preferable. Although it is customary to serve fruits with food, it is not the right thing to do. This is because different kinds of digestive secretions are produced by the stomach for variant foods. Mixing up too many varieties of food items at one meal creates problems for the digestive system. In fact, anyone type of fruit, preferably taken in the morning is better.

On an average, we eat almost three to four times the quantity of food than we actually need. A lot of body's energy is used up for digesting the excess food. It is said that after a particular level of food intake, the 'food actually eats one up'.

It is always good to eat a little less than your 'full-stomach' capacity. Besides, never eat food unless you are really hungry. Having dinner at 8 or 9 pm after a heavy snack at 5 or 6 pm in the evening is asking for trouble. In fact, skipping an odd meal is always good if the stomach is upset. There are varying views on the benefits of fasting, but we will not discuss them here. However, giving a break to one's stomach, at least once a week, by having only fruit or milk, etc. may be worth trying.

While a little bit of water taken with meals is all right, drinking 30 to 60 ml much water with food is not advisable. Water, taken an hour or so before or after meals, is good for digestion. One's diet must be balanced with all the required nutrients for a healthy living. Also remember, excess of everything is bad. Related to the problem of stress, excessive intake of salt is definitely out. Too much of sugar, fried food and chillies are not good either. Overindulgence and excessive craving for a particular taste / type of food generates *rajasik* (aggressive) or at worst, *tamasik* (dull) tendencies.

An even more important aspect of the relationship between food and stress lies not so much in what or how much we eat but how the food is taken. For example, food eaten in great hurry or in a state of anger or any other negative state of mind is bound to induce stress. How the food is served is also very important. Not only the presentation, cutlery, crockery, etc. play a role, the love and affection with which the food is served is also significant.

Finding faults with food while it is being eaten is the worst habit. It is better not to eat the food you do not like, rather than finding fault with it.

It is good to have regular food habits. Workaholics who do not find time to eat food at proper mealtimes invite stomach ulcers.

- On the basis of your reading of the passage, answer the following questions briefly.
 - A. How does *tamasik* food influence the person? (1)
 - B. Why does the writer say that 'Food actually eats one up'? (2)
 - C. What does the writer say about the intake of water? (2)
 - D. What is the important aspect of the relationship between food and stress? (2)
 - E. Why does the writer say that serving of food is also important? (2)
 - F. Why finding faults with food is a bad habit? (2)
 - G. Give a suitable title for the passage. (1)

Q. 4. A. Write a story with the help of the outline given below (12)

The green alien got down from his oval spaceship eagerly and looked around but could not see anything. The ship had created a dense dust cloud on the ground as it landed and this was now making visibility difficult. The alien got down.....

OR

B. Compose a poem in around eight to ten lines any one of the following themes. (12)

- i. A beautiful flower
- ii. My mother
- iii. A rainy day

Q. 5. A. Write a letter to your friend inviting him/ her for a tour.

(12)

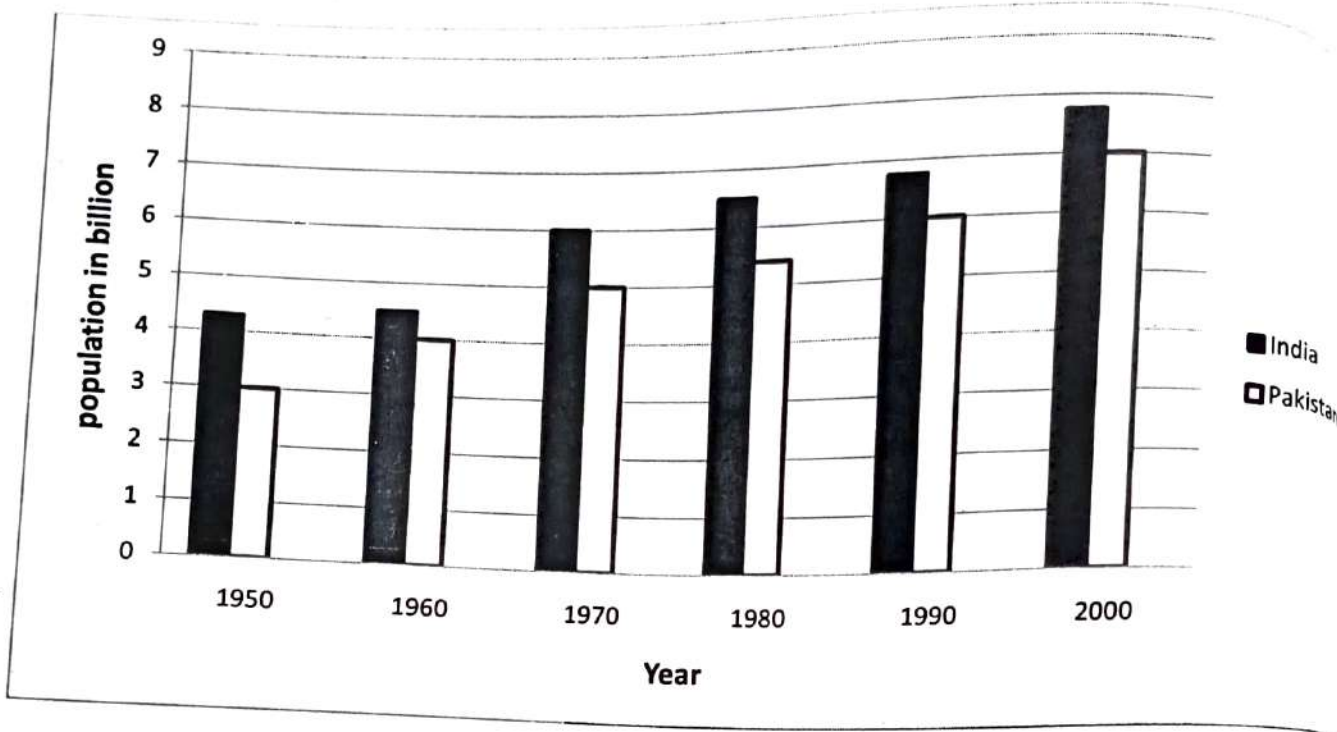
OR

B. A recent Survey has shown an alarming increase in the number of cases of child abuse in our state. Write a letter to the editor of a newspaper suggesting steps to taken for their protection

(12)

Q. 6. A. The following is a graphical representation of the comparison of the poverty of India and Pakistan. Compose an article in around 200 words by analysing and interpreting the graph given below.

(12)

OR

B. Compose an essay in around 200 to 250 words on **any one** of the following topics. (12)

- i. The impact of technology on learning
- ii. The benefits of reading
- iii. The changes I want to see in my India
- iv. Is today's generation addicted to the social networking sites?

SSPES's
GOA MULTI – FACULTY COLLEGE
DHARBANDORA, GOA

Semester End Examination - I, OCTOBER 2014

Class: F.Y.BCOM Sub: ENVIRONMENTAL STUDIES

Max marks: 40

Duration: 1.30 Hours

Instruction: 1) All Questions are Compulsory

2) Figures to right indicate marks

3) Start each new question on a fresh page

4) Draw the figures where ever necessary

Q.1 Explain the following questions in brief (ANY FOUR) (16Marks)

1. Problems of big dams.
2. Methods of soil conservation.
3. Direct uses of forest.
4. Importance of "Water as a Resource".
5. Explain food chain.
6. Role of biodiversity.

Q.2 (A) Elaborate on various causes of land pollution. (12 Marks)

OR

(B) Why is energy considered as a resource? Explain with specific examples.

Q.3 (A) Enunciate on impact of mining activities on environment. (12Marks)

OR

(B) Elucidate on future sources of energy with relevant example.

- Instructions: 1) Q. No. is 1 compulsory
2) Answer any three from Q.No.2 to Q. No. 6
3) Figures to the right indicate maximum marks.
4) Start each new question in a fresh page.

Q.1 Alpha Ltd. purchased a machine costing Rs.50,000 on 1-1-2005. It has been decided to provide for its annual depreciation as also for its replacement at the expiry of the terms on the Depreciation Fund system. A reference to the Depreciation fund table shows that Re.0.1810 invested each year will produce Re.1 at the end of 5 years at 5%. At the end of fifth year investments were sold out for Rs.15000.

Prepare Machinery account, Depreciation fund account and Depreciation fund investment account. (20)

Q2. Ajit, Ajay and Akshay were partners carrying on partnership business and sharing profits and losses in the ratio 1:2:3. On 31st March, 2007, their Balance sheet was as under. (20)

LIABILITIES		ASSETS	
Partner's Capitals		Building	20,000
Ajit 10,000		Machinery	30,000
Ajay 20,000		Motor Car	5,000
Akshay 30,000	60,000	Stock	15,000
Ajay's Loan	20,000	Debtors	20,000
Creditors	15,000	Cash	9,000
Bills payable	5,000	Investment	1,000
	1,00,000		1,00,000

On the above date, a private limited company was incorporated to take over the above business on the following terms and conditions:

- All assets (except cash and investments) and all liabilities (except Ajay's loan) to be taken over by the company for which all assets are valued at par except building which is considered worth RS.27,000 and Stock as worth Rs.14,000. Further goodwill is valued at Rs.30,000.
 - Ajay's Loan to be partly liquidated by his taking over firm's cash and investment at par. For the balance, he is given 8% debentures received from the company in part discharge of purchase consideration.
 - The balance of the purchase consideration is received in the form of equity shares of Rs.10 each of the company, which are to be appropriately distributed among the partners.
- Show ledger accounts to close the books of the firm.

Q.3. a) Prepare a specimen of Receipt Voucher (10)

b) N Ltd purchased a machine costing Rs.1,00,000 on 1-4-2000. The machine has an estimated useful life of 3 years. The company decided to adopt the insurance policy to provide funds for replacement of the machine at an annual premium of Rs.12,000. The policy is realized on the maturity date and proceeds invested in a new machine.

Prepare Machinery account, Depreciation fund account and Insurance Policy account (10)

Q.4 Mr. Mukherjee commenced business on 1st Jan 1997, with a capital of Rs.45,000. He immediately purchased furniture for Rs.24,000. During the year he received from his uncle gift of Rs.3000 and he borrowed from his father a sum of Rs.5000. He had withdrawn Rs.600 per month for his household expenses. He had no bank account and all dealings were in cash. He did not maintain any books but the following information is given: (All figures in Rupees) (20)

Sales (including cash sales RS.30000)	1,00,000
Purchases (including cash purchases Rs.10000)	75,000
Carriage inwards	700
Wages	300
Discount allowed to debtors	800
Salaries	6,200
Bad debts written off	1,500
Trade expenses	1,200
Advertisements	2,200

He used goods worth Rs.1,300 for personal purposes and paid Rs.500 to his son for examination and college fees. On 31st December 1997 his debtors worth Rs.21,000 and creditors Rs.15,000. Stock in trade was valued at Rs.10,000. Furniture to be depreciated by 10% p.a. Prepare Trading and profit and loss account for the year ended on 31st December 1997 and balance sheet as at 31st December 1997.

Q.5 Akash and Bikash are partners in a firm sharing profits and losses in the proportion of 3:2. They keep their books on the single entry system. On 31st Dec 1996 the following statement of affairs was extracted from their books: (20)

liabilities	Rs	Assets	Rs
Capital accounts		Plant and machinery	30,000
Akash	25,000		
Bikash	20,000		
Loan -Bikash	25,000	Stock	20,000
Sundry creditors	30,000	Sundry debtors	35,000
		Cash at bank	
	1,00,000		1,00,000

On 31 Dec 1997 their assets and liabilities were: Sundry debtors Rs.40,000, sundry creditors Rs.25,000, Plant and machinery Rs.50,000, stock Rs.30,000, Bills receivables Rs.5000, cash at bank Rs.25,000, Loan-bikash Rs.25,000

You are required to prepare a profit and loss statement for the year ended 31 Dec 1997 and Statement of affairs as at that date after taking into consideration of the following:

- Plant and machinery is to be depreciated by 10% p.a
- Stock is to be reduced to Rs.25,000
- A provision for bad debts to be raised at 5% on sundry debtors
- Interest on loan is to be allowed at 6% p.a
- During the period Akash and Bikash draw Rs.5000 and Rs.3000 respectively.

Q6. Write Short notes on (Any Four)

(20)

- a) Revaluation Method
- b) Depletion Method
- c) Book-Keeping and Accounting
- d) Accrual Concept
- e) AS-1

SSPES's
GOA MULTI-FACULTY COLLEGE
DHARBANDORA, GOA
B.com Semester End Examination, October- 2015

Semester I

Total No. of Questions: 06

Duration: 2 Hrs.

Cost Accounting-I

Total No. of pages: 04

Maximum Marks: 80

Instructions: 1) Question No. 1 is Compulsory.

2) Answer any 3 Questions from Q.No.2 to 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.

6) Show important working notes as fair work.

Q1. Answer ANY FOUR of the following Question:

(4*5 = 20 marks)

1. Centralized purchasing
2. Scrap and its accounting treatment
3. Difference between Direct cost and Indirect Cost
4. Cost Control
5. Advantages of Store Ledger
6. FIFO v/s LIFO

Q2.A. The Store Ledger Account of Material C in the book of Chemical Process Ltd. revealed the following transaction for the month of November 2014

(16 marks)

Date (Nov. 2010)	Particular
1 st	Opening Stock 200 Kgs. @ Rs. 7.50 per Kg.
5 th	Received from Suppliers 400 Kgs. @ Rs. 7.75 per Kg.
8 th	Issued to Production Department 240 Kgs
10 th	Issued to Production Department 160 Kgs
12 th	Received from Supplier 500 Kgs @ Rs. 7.90 per kg.
15 th	Issued to Production Department 400 Kgs

16 th	Received from Supplier 250 Kgs @ Rs. 8.00 per kg
19 th	Received from Supplier 600 kgs @ Rs. 8.25 per Kg
21 st	Issued to Production Department 350 Kgs
24 th	Issued to Production Department 260 Kgs
27 th	Issued to Production Department 340 Kgs.

You are required to price the issues and draw out the closing balances in the form of Stores Ledger Account under the FIFO pricing method.

(04 marks)

Q2.B. Calculate E.O.Q. from the following:

- Consumption during the year – 600 units
- Ordering Cost Rs. 12 per order
- Carrying Cost 20%
- Price per unit Rs. 20

Q3. The accounts of Artistically manufacturing Ltd. for the year ended 31stDecember 2013 show the following: (20 marks)

Particular	Amount (Rs.)
Stock of Material 1.1.2013	67,200
Material Purchased	2,59,000
Drawing Office Salaries	9,100
General Office Salaries	17,000
Bad Debts Written off	9,100
Sales	7,91,660
Depreciation on Office Furniture	420
Rent, Rates, Taxes and Insurance (Factory)	11,900
Productive Wages	1,76,400
General Expenses	4,760
Gas and Water (Factory)	1,680
Travelling Expenses	2,940
Manager Salary (Two Third – Factory and One Third – Office)	15,000
Depreciation on Plant and Machinery	9,200
Repairs of Plant and Machinery	6230

Carriage Outward	6020
Direct Expenses	10,010
Rent, Rates, Taxes and Insurance (Office)	2,800
Gas and Water (Office)	560
Stock of Material on 31/12/2013	87,920

You are required to prepare a Cost Sheet showing Prime Cost, Factory Cost, Administration Cost, Selling & Distribution Cost, Total Cost and Profit for the year ended on 31/12/2013.

Q4. A. From the following information Calculate: (16 marks)

- (a) Re-order Stock Level X and Y
- (b) Minimum Stock Level X and Y
- (c) Maximum Stock Level X and Y
- (d) Average Stock Level X and y

Two Components X and Y are used as follows:

Normal Usage		100 units per week each
Minimum Usage		50 units per week each
Maximum Usage		150 units per week each
Re-order Quantity	X	600 units
	Y	1000 units
Re- order Period	X	4 – 6 weeks
	Y	2 – 4 weeks

Q4.B. Explain the importance of good store-keeping in an organisation.

(04 marks)

Q5.A. What is Cost Classification? Discuss the various basis of Classification of Cost. (12 marks)

Q5.B. Explain the limitation of Cost accounting. (08 marks)

Q6.A. At the beginning of October, 2011, Quality Brush Company had in stock 10,000 brushes valued at Rs. 15 each. Further purchases were made during the month as follows:

7 th Oct.	Purchased 4,000 Brushes @ Rs. 12.50 each
14 th Oct.	Purchased 6,000 Brushes @ Rs. 12.50 each
20 th Oct.	Purchased 5,000 Brushes @ Rs. 12.50 each
24 th Oct.	Purchased 8,000 Brushes @ Rs. 12.50 each
16 th Oct.	Issues 12,000 Brushes
28 th Oct.	Issues 10,000 Brushes

You are required to prepare a store ledger account for the month of October on the assumption that material were issued on Weighted Average method.
(10 marks)

Q6.B. What is Costing System and mention the factors which should be considered in installing a costing system in an organisation.
(10 marks)

BEST OF LUCK

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DHARBANDORA – GOA

SEMESTER END EXAMINATION - I, OCTOBER 2015

Class : FY B.Com

Sub: General Management

Max Marks: 80

Duration: 2 Hours

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

Quest 1. Write short notes on (any four) (4*4=16)
A. Management Process
B. Objective of Inventory Management
C. Time Study and Motion Study
D. Features of Bureaucratic organisation
E. Types of Events
F. Functions of Logistic Managements

Quest 2. Write short notes on (any four) (4*4=16)
A. Management V/S Administration.
B. Concept of Scientific Management
C. Strategic Decision
D. Benefits of Rational Decision making.
E. American management style.
F. Types of Disaster.

Quest 3 Define Management and explain its features in detail. (2+10)

OR

What is Production Management? Explain the functions of Production Management? (6+6)

Quest 4. Explain briefly Henri Fayol's principles of Management. (12)

OR

Explain meaning and features of Japanese style of management (12)

Quest 5. What is effective decision-making? Suggest guidelines for effective decision making. (4+8)

OR

What are the different types of decision manager has to take? Distinguish Between Programmed decision and non-programmed Decision Making (4+8)

Quest 6. Explain Stress Management in detail. (12)

OR

Explain Logistic management, its features and functions in detail (4+4+4)

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GOA MULTI -FACULTY COLLEGE
DHARBANDORA, GOA

I Semester Examination, OCTOBER 2015

Class:F.Y.B.COM

Sub:Managerial Economics - I

Max marks:80

Duration:2 HOURS

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

Q 1 - Answer the following questions. (Any 4)

4x4 (16 marks)

1. Explain the relationship of business economics with Statistics and Mathematics.
2. Explain the relationship of business economics with Operations Research.
3. What are the exceptions to the law of demand?
4. What are the assumptions of the law of demand?
5. Explain about the different factors of production?
6. Explain the importance of elasticity of demand.

Q 2 - Answer the following questions. (Any 4)

4x4 (16 marks)

1. Explain the significance of demand forecasting.
2. Explain the Equi-marginal principle.
3. What do you mean by accounting and economic costs?
4. What do you mean by fixed and variable costs?
5. Explain the market equilibrium.
6. Explain about the forms of internal economies of scale.

Q 3 – A) Explain the reasons for the shifts in the demand curve with the help of a diagram.

Or

1x12 (12 marks)

B) Explain the reasons for the shifts in the Supply curve with the help of a diagram.

Q 4 – A) Explain the meaning and types of price elasticity of demand.

Or

1x12 (12 marks)

B) Explain the meaning and types of income elasticity of demand.

Q 5 – A) Explain any two methods of measuring price elasticity of demand.

Or

1x12 (12 marks)

B) Explain meaning and types of cross elasticity of demand.

Q 6 – A) Explain the diseconomies of scale.

Or

1x12 (12 marks)

B) Explain the meaning and determinants of supply.

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GOA MULTI - FACULTY COLLEGE
DHARBANDORA, GOA

Semester End Examination - I, October 2015

Class: FY-BCOM

Sub: Mathematical Techniques-I

Max Marks: 80

Duration: 2 Hours

- Instruction: 1) All Questions are Compulsory
2) Figures to right indicate marks
3) Start each new question on a fresh page
4) Use of calculators are allowed

Q.1 Attempt the following:

(5x4=20)

- a) If the 5th term of an A.P. is 35 and its 9th term is 59 then find its nth term.
b) Check the validity of following

If it rains, there is a traffic jam

There was no traffic jam

Therefore it did not rain

- c) By using the inversion method, solve the equation

$$2x+y = 4, \quad x+y = 3$$

d) Show that
$$\begin{vmatrix} a+b+2c & a & b \\ c & b+c+2a & b \\ c & a & c+a+2a \end{vmatrix} = 2(a+b+c)^3$$

OR

Q.1 Attempt the following:

(5x4=20)

- w) Prove that $\sim(p \leftrightarrow q) \equiv (p \wedge \sim q) \vee (\sim p \wedge q)$

x) If $A = \begin{bmatrix} 2 & 1 \\ -1 & 3 \end{bmatrix}$, $B = \begin{bmatrix} -3 & 2 \\ 4 & 1 \end{bmatrix}$ and $C = \begin{bmatrix} 5 & -2 \\ 1 & 3 \end{bmatrix}$

Verify i) $(A+B)+C = A+(B+C)$

ii) $3(A-B) = 3A-3B$

- y) For the geometric progression 1, 3, 9, 27,..... Find T_n and S_n when $n = 6$

z) Solve the following equations by using Cramer's rule

$$2x - y + 3z - 4 = 0, \quad x + y + z - 2 = 0, \quad 3x + y - z - 2 = 0$$

(5x4=20)

Q.2 Attempt the following:

a) If $X = \{1, 2, 3, 4, \dots, 20\}$

$$A = \{1, 3, 5, 7, 8, 9, 11, 12, 13, 15, 19\}$$

$$B = \{2, 3, 4, 7, 10, 11, 13, 15, 17, 18\}$$

Verify i) $A - B = (A' \cup B)'$

$$\text{ii) } (A \cap B)' = A' \cup B'$$

b) Write down binomial expansion of $(1-x)^5$

c) Find whether the following statement is tautology, contradiction or neither

$$[(p \rightarrow (q \rightarrow r)) \leftrightarrow [(p \wedge q) \rightarrow r]]$$

d) How many different arrangements can be made of the letters of the word

CENTRAL, so that it begins with a consonant and end with a vowel.

OR

Q.2 Attempt the following:

(5x4=20)

w) Find the 5th term in expansion of $(x^2 - 2/x)^8$

x) Find n, If $np_3 + (n-1)p_3 + 3(7p_2)$

y) If $A = \{L, O, G, A, R, I, T, H, M\}$

$$B = \{T, H, E, O, R, Y\}$$

$$C = \{T, H, E, O, R, E, M, S\}$$

Verify $A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$

z) Prove that $\sim r \rightarrow \sim (p \wedge q) \equiv (q \rightarrow r) \rightarrow \sim p$

Q.3 Attempt the following:

(5x4=20)

a) Show that $\begin{vmatrix} 0 & x & y \\ -x & 0 & z \\ -y & -z & 0 \end{vmatrix} = 0$

b) i) Solve the equation $x^2 - 5x - 6 = 0$

ii) Define Null set

c) Find Inverse of matrix A if

$$A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$$

d) i) Find n, if ${}^3P_4 = {}^nP_5$

ii) How many different numbers one can form using all the digits of the number 8488448?

OR

Q.3 Attempt the following:

(5x4=20)

w) By using matrix inversion method, Solve the following

$$4x+7y = 2, \quad x+2y = 1$$

x) A club has 5 girls and 7 boys. If 4 persons out of these are to be selected,

Find the total number of choices if:

i. There is no restriction on gender,

ii. 3 boys and 1 girl is to be selected.

y) Show that
$$\begin{vmatrix} y+z & z & y \\ z & z+x & x \\ y & x & x+y \end{vmatrix} = 4xyz$$

z) i) Solve the equation $x^2-5x-9=0$

ii) If $n(A) = 5$, $n(B) = 7$ and $n(A \cap B) = 2$, Find $n(A \cup B)$.

(5x4=20)

Q.4 Attempt the following:

a) Construct the truth table for

i) $\sim (\sim p \vee \sim q)$

ii) $(p \rightarrow q) \leftrightarrow (\sim p \vee q)$

b) For an A.P represented by $T_n = 7n-1$, Write down its 1st term and common difference.

c) i) Find x, if
$$\begin{vmatrix} x & 2 & 1 \\ 3 & 0 & 1 \\ 4 & -5 & 2 \end{vmatrix}$$

ii) Write down the condition of consistent of linear equation.

d) Find a matrix X such that $2X+3A-2B=0$ where

$$A = \begin{bmatrix} 2 & 3 \\ -1 & 4 \end{bmatrix} \quad B = \begin{bmatrix} -1 & 2 \\ 0 & 1 \end{bmatrix}$$

OR

Q.4 Attempt the following:

w) For an G.P. $9, \frac{9}{2}, \frac{9}{4}, \frac{9}{8}, \dots$ Find the value of T_n and S_n when $n = 6$.

x) If $A = \begin{bmatrix} 1 & -4 \\ -2 & 3 \end{bmatrix}$, $B = \begin{bmatrix} -1 & 6 \\ 3 & -2 \end{bmatrix}$, $C = \begin{bmatrix} 4 & -5 \\ 2 & 1 \end{bmatrix}$

Verify that, $A(BC) = (AB)C$

y) Construct the truth table for the following, Also state its condition

$$[(\sim p) \wedge q] \wedge (q \wedge r) \wedge (\sim q)$$

z) Solve the following equation using Cramer's rule

$$4x+3y = 10, \quad 5x+2y-2 = 0$$

(5x4=20)

GOA MULTI -FACULTY COLLEGE
DHARBANDORA, GOA
I Semester Examination, OCTOBER 2015

Class :F.Y.BCOM

Sub: INFORMATION TECHNOLOGY

Max marks: 80

Duration: 2 Hours

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

Q.1) Answer Any 4 of the following.

(4x4=16 Marks)

1. Give the full form of

- a)HTML
- b) IDE
- c)ASCII
- d) PDF

2.What is a Directory Structure?

3.What is meant by Unicode?

4. Explain Application of IT in Education?

5.Give any four functions of an operating system?

6.Distinguish between Lossy and Lossless Compression?

Q.2) Answer Any 4 of the following.

(4x4=16 Mark

1. Give the full form of

- a) HCI
- b)USB
- c)HDTV
- d)PNG

2.State any 4 features of Authoring Tools?

3. Explain M-Commerce?

4.Explain the following terms:

- a) Compiler
- b) Interpreter

5. What are the different types of Flash Memory?

6.Explain the Different Types Of E-Commerce?

(12 Marks)

Q.3) Answer the following questions

1. Define Multimedia And Explain the Different Applications of Multimedia?

OR

2.. Explain the various steps in information / data processing cycle with the help of a diagram and Explain the qualities of good information in brief?

(12 Marks)

Q.4) Answer the following questions

1. Explain the difference between application software and system software. Give two examples for each type of software?

OR

2.Explain the following terms in brief.

- a)HCI
- b)Virtualization in OS
- c)Disk Partitioning

Q.5) Answer the following questions

(12 Marks)

1.What do you mean by E-Retail and Explain the Different Types of Payment Systems?

OR

2.Explain E-Banking and Different Services provided by E-Banking with Payment Gateway?

Q.6) Answer the following questions

(12 Marks)

1. Define Computer Ethics and Explain Ten Commandments of Computer Ethics:?

OR

2.Explain the following terms in brief.

- a)Software Piracy
- b)Fair Use
- c) Software Licensing

-----Best of Luck-----

SHREE SATERI PISSANI EDUCATION SOCIETY'S
Shri. Gopal Gaonkar Memorial
GOA MULTI – FACULTY COLLEGE
DHARBANDORA, GOA
Semester End Examination - I, October 2015

Class: FYBCOM
Max Marks: 80

Sub: Written Communication
Duration: 2 Hours

- Instruction: 1) All Questions are Compulsory
2) Figures to right indicate marks
3) Start each new question on a fresh page

INSTRUCTIONS:

- 1) All the questions are compulsory.
- 2) Figures to the right indicate maximum marks
- 3) Numbers of questions and sub-questions must be written clearly
- 4) Start each new question on a fresh page

Q.1) Rewrite each of the following sentences according to the instructions given. (16 marks)

A. Identify the tenses

- i) I have been speaking
- ii) They will come
- iii) The farmer is cutting the corn which has ripen.
- iv) It has been raining all night.

B. Change the voice

- i) The boy made the kite.
- ii) The sudden noise frightened the horse.
- iii) The young man made a disturbance at the meeting.
- iv) The girl was bitten by a dog.

C. Insert a suitable modal.

- i).....you lend me your scooter?
- ii) You.....have been more careful.
- iii) It.....rain tomorrow.
- iv)you pass me the salt?

D. Add question tags to the following.

- i) Deepak broke the glass,.....?
- ii) They haven't come yet,.....?
- iii) I am right,.....?
- iv) There is a mosque in that street,.....?

Q.2 A) You are Dipali/ Dipesh. You had participated in an elocution competition. Make a diary entry describing your experience. (10 Marks)

OR

Q.2 B) Reena was a simple girl from a small town but her dream was way bigger. A hard working girl that she was, made her to travel all the way from her tiny village to this big city of dreams. Today was the best day of her life..... (10 Marks)

Q.3 A) Read the following article carefully: (5 Marks)

The practice of soil conservation involves methods to reduce soil erosion, prevent depletion of soil nutrients and restore nutrients, already lost by erosion and excessive crop harvesting. Most methods used to control soil erosion involve, keeping the soil covered with vegetation. To reduce erosion, an increasing number of farmers in many countries are using methods like conservation-tillage farming, contour farming and strip cropping. Farmers using these methods disturb the soil as little as possible.

In Tillage farming, special trillers break up and loosen the subsurface soil without turning over the topsoil. In addition to reducing soil erosion, it also reduces water loss from the soil. Soil erosion can also be reduced by 30-50 percent on gently sloping land by means of contour farming – ploughing and planting crops in rows across. Each row planted horizontally along the slope of the land acts as a small dam to help hold and slow the run off of water. In strip cropping, a series of rows of one crop is planted in a wide strip. Then the next strip is planted with a soil conserving cover crop such as grass or grass-legume mixture, which completely covers the soil and thus reduces erosion. It also reduces water run off, and helps prevent the spread of plant diseases and pests from one strip to another.

Q. 3 A) On the basis of your reading of the above passage, give it a suitable title and write the para-wise topics and sub-topics using the format given below. Do not write sentences. Use only meaningful phrases. (3)

Title:.....

I:

II:.....

Q 3 A III) Write a brief summary of the above passage using the topic sentences of the paragraphs. (2)

Q.3 B) Read the following passage carefully:-

You may be aware that successful prevention of heart disease as well as its management involves several dietary modifications. Spices are an indispensable part of Indian cooking. We seem to be on the right track since recent studies show that spices and herbs in food may do more than just add flavour.

Recent reports suggest that spices have anti-oxidant ability and reduce blood cholesterol. It is however still unclear whether such favourable effects of spices translate into real clinical benefits.

Cinnamon (1-6g/day) was shown to reduce different types of blood lipids (fats) such as total cholesterol, LDL cholesterol, and triglyceride levels in diabetic patients. Similarly, a combined analysis of 39 studies using garlic in patients with high cholesterol levels showed that it decreased total cholesterol and increased good cholesterol.

The beneficial effects of a large dose (14g) of high-antioxidant containing spice blend (including black pepper, cinnamon, cloves, garlic powder, ginger, oregano (Mediterranean), paprika, rosemary, and turmeric) was studied by researchers from The Pennsylvania State University. Six overweight men (30-65 years) were given 2 different high-fat meals: a control meal consisting of a dessert biscuit, coconut chicken and cheese bread, or the same control meal with the spice blend. Blood samples were taken immediately after the meal and every 30 minutes over 4 hours. Blood lipids, glucose, insulin and antioxidant ability were measured. Antioxidant ability of blood was enhanced by 13% after consumption of the meal with the spice blend as compared to the meal without it. The blend of spices and herbs also helped improve levels of post meal insulin and triglyceride concentrations.

More large scale studies are necessary to clearly establish the health benefits of spices and whether there are any ill-effects of consuming too much of spices. However, the amount of spices that one needs to consume every day for the clinical benefits to be evident is largely unknown. Till then, add spices to your cooking, but in moderation only. You might reduce your heart disease risk!

I) On the basis of your reading answer the following questions:

(3)

- 1) What are the findings of recent studies on spices?
- 2) What are the effects of cinnamon on diabetic patients
- 3) What did the 2 high-fat meals used in the study, consist of?

II) Give the meaning of the following words in the context of the passage:

(2)

- 1) Enhanced
- 2) Favourable

Q. 4 A) Write a letter to the Editor of the local newspaper about rash and reckless driving by the people in your city and suggest preventive measures. You are Triveni/ Tanay Naik, Paradise Apt. Flat No 6, Savordem Goa. .

(7 Marks)

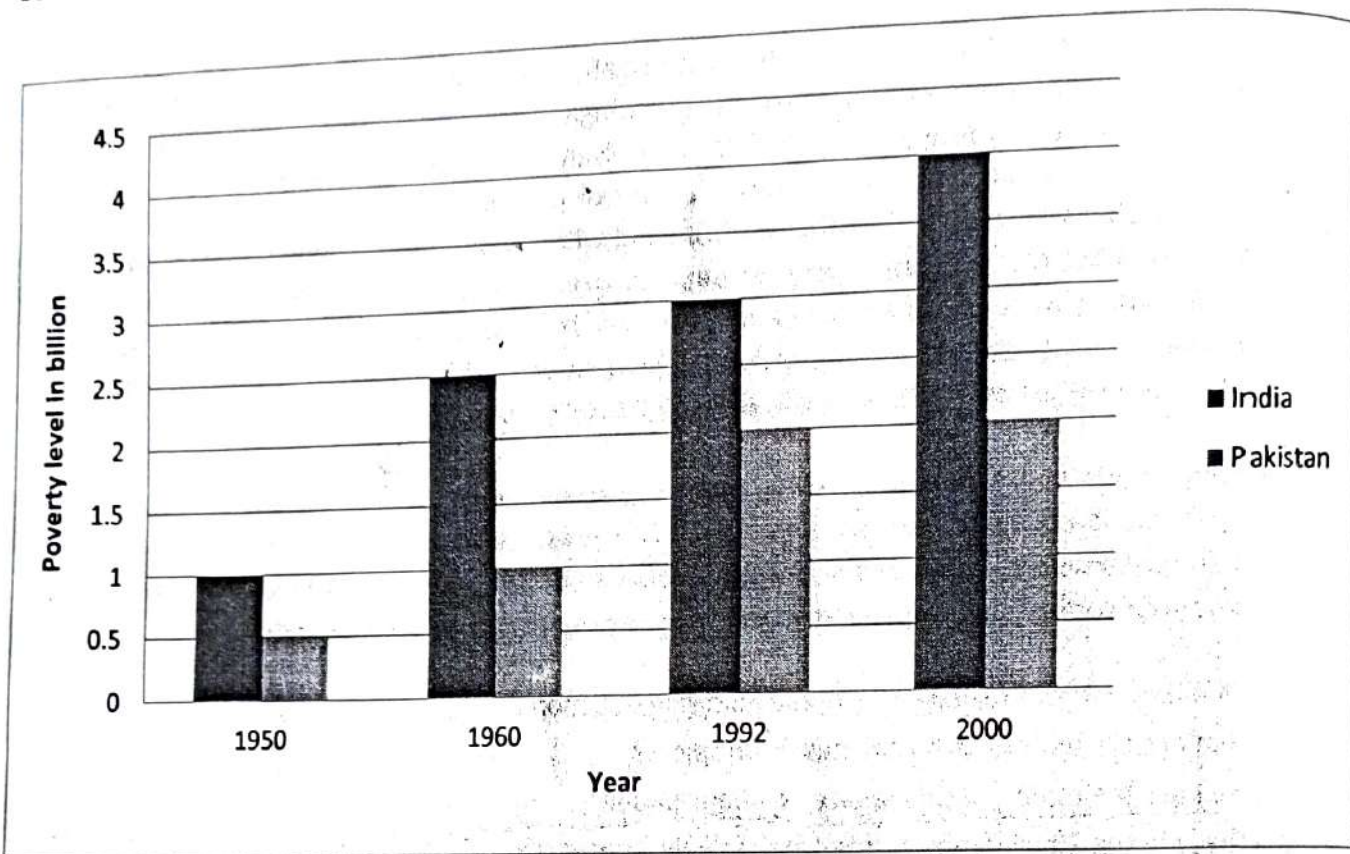
Q. 4 B) You are Ms. Shubhada Dongre, The Principal of Mount Mary Higher Secondary, Kasarval. Confirm an order given by telephone to Samarth Enterprises, for 100 pocket calculators for your higher secondary. .

(7 Marks)

Q.5) You are Muskaan/Asif Shaikh, H.No.27, Rainbow Housing Colony, Bicholim Goa. You have lost your library book while travelling by bus from Mapusa to Bicholim. Write a suitable advertisement to be published in the classified columns of a local daily. (5 Marks)

Q.6 A) Write an essay on the topic "Internet: a boon or bane?" : (15 Marks)
OR

Q.6 B) Q.6 B) The following is the graphical representation of the comparison of the poverty rate in India and Pakistan. Compose an article in around 200 words by analyzing and interpreting the graph given below. : (15 Marks)



Q.7 A) Write an autobiography of a bird. . (10 Marks)

OR

Q.7 B) Answer the following questions. . (10 Marks)

i) Compose a note on Creative Writing.

ii) Write a short note on how to improve your writing skills.

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Semester End Examination - I, October 2015

Class: FY-BCOM

Sub: Environmental Studies

Max Marks: 40

Duration: 1.30 Hours

Instruction: 1) All Questions are Compulsory

2) Figures to right indicate marks

3) Start each new question on a fresh page

Q.1 Explain the following questions in brief (ANY FOUR) {4*4=16}

1. The need of public awareness regarding various environmental problems.
2. Relationship between economic development and resources
3. Importance of forest.
4. Problems of big dams.
5. Explain the energy flow in an ecosystem.
6. Explain the ecological role of biodiversity

Q.2 (A) "Agricultural practices are responsible for soil degradation". Justify. {12}

OR

(B) Enunciate on various causes of land pollution. {12}

Q.3 (A) Explain food chain and food web. {12}

OR

(B) Elucidate on the various values of biodiversity. {12}