GLOBAL COLLEGE OF MANAGEMENT

Second Term Exam – 2069

Grade: XII Subject: English F.M.:100
Time: 3 hrs. P.M.: 40

Set 'A'

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Attempt **all** questions

1. Read the following passage and answer the questions that follow: [15]

After having lived for over 20 years in the same city, Rita was forced to move to a new neighborhood. She surprised her landlord by telling him that she was leaving because she could not afford to buy any more chocolate.

It all began a year ago, when Rita returned home one evening and found a large dog in front of her gate. She was very fond of animals and as she happened to have a small piece of chocolate in her pocket, she gave it to the dog. The next day, the dog was there again. It held up its paws and received another piece of chocolate as a reward. Rita called her new friend 'Bingo'. She never found out the dog's real name, or who his owner was. However, Bingo appeared regularly every afternoon and it was clear that he preferred chocolate to bones. He soon grew dissatisfied with small pieces of chocolate and demanded a large bar a day. If at any time Rita neglected her duty, Bingo got very angry and refused to let her open the gate. Rita was now at Bingo's mercy and had to bribe him to get into her own house! She spent such a large part of her salary to keep Bingo supplied with chocolate that in the end she had to move somewhere else.

Questions:

a. What did Rita see in front of her gate one evening? What did she give it?
b. Why did the dog become a regular visitor?
c. What did Bingo demand in time?
d. What would Bingo do if he did not receive the thing he wanted?
e. Why did Rita decide to move to a new neighborhood?

2. Write an essay on "Happiness" based on your own experiences. [10]

3. Write a review for a newspaper of a recent film or a story you've read. [10]

4. Write two paragraphs about the advantages and disadvantages of having a telephone. [5]

5. Change these sentences, using must, can't, ,may/might. [5]
   a. Perhaps he went home.
   b. I'm sure he's working.
   c. I'm sure they haven't been waiting long.
   d. Perhaps she's not coming.
   e. I'm sure she was feeling ill.

6. Combine the following pairs of sentences into indirect questions. [5]
   Example: What does he do for a living? I often wonder.
   Answer: I often wonder what he does for a living.
   a. What is your brother's name? I've forgotten.
   b. Did he look angry? Did you notice?
   c. What time does the concert start? I've no idea.
   d. Are you coming tomorrow? I need to know now.
   e. Did you ever find your camera? I've been meaning to ask you.

7. Ask a question with 'How long….? and answer it, using the words in brackets. [5]
   a. They talked on the telephone. (20 minutes)
   b. She painted the bathroom ceiling. (six o'clock)
   c. We played golf on Sunday. (dusk)
   d. He moved the lawn. (ten minutes)
   e. I wrote all my letters. (lunchtime)

8. Make a wish for the following situations [5]
   a. You're in bed with flu.
   b. You are lost.
   c. You are out of work.
   d. You do not know English.
   e. You have no money.

9. Change the following sentences, using When instead of and or but. [5]

a. She peeled the banana and gave it to the baby.
b. I looked in the fridge and found some sausages.
c. The security men searched our hand baggage and we boarded the plane.
d. He kicked the dog and it barked.
e. The plane took off and the stewardess came round with orange juice.

10. Look at the example given below. [5]
Example: Bomb attack: president leaves palace just in time.
(i) The president had only just left the palace when a bomb exploded in his office.
(ii) No sooner had the president left the palace than a bomb exploded in his office.
Explain the newspaper headlines below in the same way.
(i) Using …… had only just…. When…….
(ii) Using No sooner had…… than……
a. Peace talks break down on first day.
b. Manchester player breaks leg in first minute of match.
c. New king abdicates.
d. Jewel thief caught red handed.
e. Missing first husband ruins honeymoon.

11. Write a physical description of yourself talking about your height, weight and build and describe your face in detail. [5]

12. Answer the following questions: (any five) [3×5=15]
i. What is the apparent purpose of King's speech? (I Have a Dream)
ii. Why were the female entrepreneurs not always ladies first? (Women's Business)
iii. How was the trend in adoption in the past in America? And how is it now? (The Children Who Wait)
iv. Justify the title " The Tell Tale Heart."
v. Why is death meaningful in the poem "Full Fathom Five Thy Father Lies"?
vi. What are the effects of deforestation? (Two Long Term Problems)

13. What differences does the writer show between a traditional society and a modern society in matters of pregnancy, childbirth and childrearing? (A Child is Born) [10]

OR

How does the story describe the growth of an ordinary boy to an assertive young man? (The Last Voyage of the Ghost Ship)

GLOBAL COLLEGE OF MANAGEMENT

First Term Exam – 2069

Grade: XII Subject: English F.M.:100
Time: 3 hrs. P.M.: 40

Set 'B'

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Attempt **all** questions

1. Read the following passage and answer the questions that follow: [15]

In 1964 an American journalist called Norman Cousins developed a serious problem with his back. It turned out that he had an illness called *ankylosing spondylitis*, which was extremely painful and, according to doctors, incurable. He was admitted to hospital, unable to move and was prescribed a course of strong painkilling drugs.

Cousins knew that negative emotions could make you ill, and began to wonder whether positive emotions and particularly laughter-might make you better.

He stopped taking the drugs, and moved out of the hospital into a hotel room, which was not only a more cheerful place to be but was also cheaper. There he hired a lot of Marx Brothers and candid camera films, and started to watch them. He found that every time he laughed, the laughter acted as anesthetic and gave him relief from pain. And the effect lasted some time: 10 minutes' laugher could give him around two hours free from pain. More important, he found that he was slowly getting better, and eventually recovered completely from illness. For many years, the medical profession refused to take cousins' claims seriously, but now things are changing and some American hospitals have set up 'laughter rooms', where patients can watch videos, listen to cassettes and read joke books, instead of sitting around feeling depressed.

Questions:

a. Why was Cousins admitted to hospital?
b. Why did he move out of the hospital?
c. What effects of the laughter did cousins have?
d. How did the hospitals react to the claims made by cousins initially?
e. Summarize the passage in 30 words.

2. Write an essay on "Jealousy." [10]

3. Tell the story of a dream you have had. [10]

4. Write a paragraph about the advantages and disadvantages of shopping in supermarkets rather than in small shops. [5]

5. Explain the following deductions using an If… sentences. [5]

Example: He can't be a soldier.. he's not wearing a uniform.
Answer: If he was a soldier, he would be wearing a uniform.

a. They must be having an argument- they have shut the door.
b. He must have been here recently- the kettle's warm.
c. They must have got lost- they are not here yet.
d. She must know English- she was listening to the BBC.
e. He can't be working at the library- I haven't seen him there.

6. Change the questions below to information questions. [5]

a. Are we having tomato/chicken/mushroom soup today?
b. Was it raining/ foggy/ cold when you were in London?
c. Are you going to boil/ fry / scramble those eggs?
d. Are there four/ five/ six of you?
e. Are you Margaret's cousin/ brother/ nephew?

7. Rewrite these sentences beginning <u>if there's one thing</u>. [5]

a. I loathe people who ring me up early in the morning.
b. I detest people who interrupt when I'm speaking.
c. People who break promises make me angry.
d. People who are cruel to animals upset me.
e. People who smoke in restaurants annoy me.

8. Make regret in these situations, using [5]
I wish….. or I should n't…….
a. You are suffering from sunstroke.
b. War has suddenly broken out, and you are stuck in your hotel room.
c. you house has burnt down.
d. You feel seasick.
e. You are short of sleep.

9. Change the following sentences, using as soon as instead of and and immediately. [5]
a. They saw the house and immediately fell in love with it.
b. I wrote the letter and immediately posted it.
c. The train passed and immediately the crossing barrier went up.
d. He got married again immediately after his wife's death.
e. I looked into her eyes and immediately knew that she was the girl for me.

10. Compare the prices of the things below. [5]

a. tinned peas: 25p	frozen peas: 48p
b. cotton sheets: £14	silk sheets : £150
c. Olive oil : £2	Corn oil : 99p
d. leather gloves : £8	woollen gloves : £2.75
e. colour TV : £310	black and white TV : £60

11. Make a list of experience and / or achievements for the following statement. [5]
The Colonel has had a remarkably adventurous life.

12. Answer the following questions: (any five) [3×5=15]
i. How is the glory of God praised in the poem 'God's Grandeur'?
ii. How is Karnali linked economically with the low land regions to the south? (Hurried Trip to Avoid a Bad Star)
iii. What are the factors that brought changes in the trend of adoption? (The children who wait)
iv. How did the women start and flourish their business in America? (Women's Business)
v. What is Martin Luther King complaining about? (I Have a Dream)
vi. What is the strangest thing about the ghost ship? (The Last Voyage of the Ghost Ship)

13. Why does the narrator develop intense hatred against the old man? Would you call the narrator mad? Give reasons for your answer. (The Tell-Tale Heart) [10]

OR

Give a description of the outing as Thomas would describe it. (A Story)

GLOBAL COLLEGE OF MANAGEMENT

Second Term Exam-2069

Grade: XII Subject: Accountancy F.M.:100
Time: 3:00 hrs. P.M.:40

Set A

1. Write the meaning of company and mention any two characteristics of company. 2+1=3

2. What do you mean by Articles of association? 2

3. Describe any three limitation of financial statement analysis. 3

4. Describe in short any two limitations of Ratio Analysis. 2

5. Explain in short any three functions of cost accounting. 3

6. Write about semi-variable cost. 2

7. Classify overhead on the basis of behavior. 3

8. Write in briefly any two advantages of piece wages system. 2

9. The Trail Balance of a company as on 31st Chaitra, last year is given below:

Particulars	Debit (Rs.)	Credit (Rs.)
Building	1,80,000	
Purchases	3,00,000	
Loan		72,000
P/L account		50,000
Share capital		90,000
Cash at bank	10,000	
Debtors	40,000	
Insurance	10,000	
Sales		4,38,000
Wages	17,000	
Salaries	50,000	
Sundry expenses	4,000	
Interest	9,000	
Machinery	30,000	
Total	**6,50,000**	**6,50,000**

Additional Information:

a) Outstanding wages Rs.1,000
b) Depreciation on machinery @ 10%
c) Proposed dividend @ 10%
d) Pre paid insurance Rs.2,000

Required: Adjustment entries & work sheet. 2+8=10

10. The trial balance of Ganapati Trading Co. Ltd. on Chaitra 30 is as follows :

Particulars	Rs.	Particulars	Rs.
Purchase	5,00,000	Share Capital	3,00,000
Salaries	45,000	Sales	7,50,000
Stores Consumed	2,000	Return Outwards	5,000
Printing and Stationery	6,000	Provision for Bad debts	2,500
Rent	13,000	Discount Received	1,500
Goodwill	50,000	10% Debenture	40,000
Plant and Machinery	1,80,000	Fixed Deposits	5,000
5% Government Bonds	20,000	Bills Payables	2,000
General Expenses	15,000	Pension Fund	5,000
Wages	5,000	Debenture Premium	1,000
Import Duty	1,000	Sinking Fund	4,000
Opening Stock	1,65,000	Capital Reserve	8,000
Travelling Expenses	5,000	Profit and Loss Account	26,000
Bad debts	1,000		
Insurance	2,000		
Preliminary Expenses	2,000		
Debtors	50,000		
Cash in hand & Bank	86,000		
Calls in Arrears	2,000		
	11,50,000		11,50,000

Additional Information:

a) Closing stock was Rs. 1,50,000.
b) Wages to be paid Rs.1,000.
c) Depreciate plant and machinery by 10%.
d) Provision for tax is made at 50% .
e) Write off Bad debts Rs. 2,000 and provision for bad debts @ 5%.
f) The directors have decided:
   i. 10% dividend on paid up capital.
   ii. Transfer of Rs. 5,000 to the general reserve account.

Required:

(i) Trading Account
(ii) Profit and Loss Account.
(iii) Profit and Loss Appropriation
(iv) Balance Sheet. 15

11. The Balance sheet of A.K. Co. Ltd as on 31st Chaitra, 2062 is as under:

Liabilities	Rs.	Assets	Rs.
Share capital	2,00,000	Fixed Assets	2,00,000
Retained earning	1,50,000	Investment	1,23,000
10% debenture	70,000	Sundry Debtors	1,00,000
Sundry creditors	30,000	Inventory	50,000
Overdraft	20,000	Preliminary expenses	7,000
Outstanding expenses	10,000		
Total	**4,80,000**		**4,80,000**

Additional information:

(a) Inventory turnover ratio 10 times.
(b) Net profit Rs.50,000

Required:

(i) Sales amount (ii) Current ratio
(iii) Quick ratio (iv) Debt-equity ratio
(v) Fixed assets turnover ratio (vi) Net Profit ratio
(vii) Return on shareholder's Equity. 7

12.

	OPENING (Rs.)	CLOSING (Rs.)
Investment	50,000	1,00,000
Proposed dividend	30,000	20,000
Account receivable	60,000	90,000
Inventory	1,80,000	2,50,000
Sundry debtors	80,000	1,25,000
Cash	40,000	30,000
Sundry creditors	10,000	60,000

Additional Information:

a) A part of fixed assets with a book value of Rs. 50,000 was sold for Rs. 45,000.
b) Purchased of fixed assets Rs. 80,000.
c) Dividend paid Rs. 10,000.
d) Issued of shares for Rs. 1,00,000.

Required:

(i) Schedule of changes in working capital.
(ii) Funds flow statement. 3+2=5

13. The following details are provided :

a)	Net profit for the year	Rs. 20,000
b)	Tax paid	Rs. 2,000
c)	Dividend received	Rs. 1,000
d)	Preliminary exp. written off	Rs.1,000
e)	Depreciation on fixed assets	Rs.1,000
f)	Sale of furniture (Cost Rs. 6000)	Rs. 5,000

Required : Funds from operation 2

14. The Balance Sheets of a company have been given below :

Liabilities	Year I	Year II	Assets	Year I	Year II
Share Capital	4,40,000	6,00,000	Land & Building	1,60,000	1,60,000
Share Premium	32,000	40,000	Plant & Machinery	2,00,000	2,80,000
10% Debentures	1,60,000	80,000	Investment at Cost	1,60,000	2,40,000
Bank Overdraft	–	32,000	Inventories	1,60,000	80,000
Accounts Payable	1,28,000	80,000	Prepaid Expenses	6,400	9,600
Outstanding Exp.	16,000	8,000	Accounts Receivable	1,53,600	1,18,400
Provision for Taxation	48,000	64,000	Cash at Bank	48,000	80,000
Profit & Loss A/C	64,000	64,000			
	8,88,000	9,68,000		8,88,000	9,68,000

Additional information:

a) For the year II, sales was Rs. 8,40,000 and cost of goods sold was Rs. 5,64,000. The operating expenses was Rs. 1,00,000. The tax paid for the year was Rs. 28,000.

b) Debenture was redemption with a premium of Rs. 10,000 and the dividend paid was Rs. 70,000.

c) The sale proceed of plant was Rs. 4,000 and purchased was Rs.1,00,000.

Required: Cash Flow Statement using Direct Method. 10

15. Opening and Closing Balances :

Particulars		1st Jan.	31st Dec.
Inventories	Rs.	4,25,000	4,50,000
Sundry Debtors		2,00,000	2,50,000,
Bills Receivable		50,000	40,000
Sundry Creditors		1,00,000	1,20,000
Bills Payable		25,000	20,000

Additional information:

a) Net profit for the year Rs.50,000

b) Depreciation on fixed assets was Rs.10,000

c) Interest on investment Rs.2,000

d) Loss on sales of plant Rs.3,000

e) Provision for tax Rs.15,000

f) Operating expenses was Rs.1,00,000.

Required : Cash from operating activities by using indirect method 5

16. The following particulars are given:

Normal usage of material 200 units per day
Maximum usage material 300 units per day
Re order quantity 2,500 units
Lead time 4-6 days

Required: Calculate maximum stock level 2

17. Following are the information relating to a firm:

Annual requirement = 36,000 units
Cost per unit = Rs.300
Carrying Cost per unit = 10% of average inventory (Excluding insurance)
Ordering cost per order = Rs.50
Insurance per unit = Rs.10

Required: Economic order quantity 2

18. The following are the store transactions of a certain materials during the month of Magh:

Magh 1: Opening stock 500 units @ Rs.20 per unit
Magh 5: Receipts from vendor 400 units @ Rs.21 per unit
Magh 12: Issued 800 units
Magh 18: Return from factory 50 units
Magh 22: Receipts from vendor 600 units @ Rs.22 per unit
Magh 24: Return to vendor 20 units .
Magh 25: Issued 500 units.
Magh 28: Stock verification and found shortage 10 units.

Required: Store ledger under FIFO method. 5

19. The following particulars are given:
Wage rate per unit Rs.10.
Normal time per unit 20 minutes
Ram worked 10 hrs.
Required: Wages of Ram under Piece Rate System 2

20. From the following figures prepare a reconciliation statement . 5

Net profit as per Cost Account	Rs.50,000
Selling overhead under charged in financial account	Rs. 5,000
Depreciation charged in Financial Account	Rs. 12,000
But in cost account	Rs.15,000
Interest received but not included in costing	Rs. 10,000
Income tax paid	Rs. 7,000
Closing stock charged in financial account	Rs. 30,000
But in cost account	Rs.32,000

21. The beginning and ending balances of a manufacturing company for a month are as under:

	Beginning	**Ending**
Raw material	Rs.20,000	Rs.15,000
Work-in-progress	Rs.12,000	Rs.15,000
Finished goods	2000 units	1000 units

The information available from the cost records for the month ended was as follows:

Direct materials purchased	Rs. 1,20,000
Indirect labour	Rs. 18,000
Direct labour	Rs. 32,000
Freight on material purchased	Rs. 6,000
Other factory expenses	Rs. 30,000
Direct material	Rs. 34,000
Selling and distribution overhear	Rs. 2 per unit
Production units	26,000 units
Profit 10% on sales	
Sale of Scrap	Rs. 2,000
Salary	Rs. 16,000
Rent	Rs. 4,000

Required: Cost Sheet and profit per unit. 9+1=10

GLOBAL COLLEGE OF MANAGEMENT

Second Term Exam-2069

Grade: XII Subject: Accountancy F.M.:100
Time: 3:00 hrs. P.M.:40

Set B

1. Explain in brief any three advantages of a public ltd company? 3

2. Write any two differences between private and public company. 2

3. Give the meaning of Financial statement and mention any two objectives of its. 3

4. What do you mean by debt-equity ratio? 2

5. Explain in brief any three importance of cost account 3

6. What do you understand by codification of materials? 2

7. What do you mean by classification of cost according to control? 3

8. Write in briefly any two advantages of time wages system. 2

9. The Trail Balance of a company as on 31st Chaitra, last year is given below:

Particulars	Debit (Rs.)	Credit (Rs.)
Machinery	1,00,000	
Purchases	2,50,000	
Creditors		60,000
Rent		20,000
Share capital		1,00,000
Cash at bank	40,000	
Debtors	14,000	
Pre-Pain insurance	6,000	
P/L app. account		30,000
Sales		3,10,000
Wages	17,000	
Salaries	40,000	
Sundry expenses	40,000	
Interest	9,000	
Director fees	4,000	
Total	**5,20,000**	**5,20,000**

Additional Information:

a) Outstanding salary Rs.1,000
b) Depreciation on machinery @ 10%
c) Pre – paid insurance expired Rs.4,000.
d) Proposed dividend @ 10%.

Required: Adjustment entries & work sheet 2+8=10

10. The balances on the books of the Bright star Co. Ltd. after closing the Trading account as on 31st.chaitra are as follows:

Particulars	Dr. (Rs.)	Particulars	Cr.(Rs.)
Opening Stock	1,50,000	Sales	6,79,000
Purchases	4,90,000	Discount	6,000
Furniture	34,000	Profit and Loss Account	30,000
Rent	8,000	Share Capital	2,00,000
Plant	58,000	General Reserve	31,000
Bills Receivable	10,000	Bills Payable	14,000
Wages	60,000	Purchases Returns	20,000
Carriage Inward	2,000	Creditors	35,000
Salaries	15,000		
Sundry Expenses	14,000		
Dividend for last year	18,000		
Debtors	55,000		
Cash at Bank	92,000		
Insurance	9,000		
	10,15,000		10,15,000

Additional information :

a) Closing stock was valued at Rs. 1,80,000.
b) Depreciate plant and furniture by 10%.
c) Outstanding salaries Rs. 1,000 and pre-paid insurance Rs. 3,000.
d) The directors proposed a dividend @ 10% per annum and provided the transfer to general reserve Rs.5,000.
e) Write off baddebts Rs.5,000 and make a provision for doubtful debt @ 10%.
f) Make a provision for income tax @ 40%

Required :

(i) Trading and Profit & Loss Account
(ii) Profit and Loss Appropriation Account
(iii) Balance Sheet 15

11 . Given below is the balance Sheet of D. Co. Ltd. as on Chaitra 31

Liabilities	Rs.	Assets	Rs.
Bills Payable	90,000	Sundry Debtors	60,000
Expenses Payable	18,000	Cash Balance	33,000
12% Debentures	1,50,000	Short term loan	30,000
Reserve & Surplus	60,000	Inventories	40,000
Equity Capital of Rs. 100 each	3,00,000	Machinery	1,25,000
		Land & Building	3,25,000
		Preliminary Expenses	5,000
Total	6,18,000	**Total**	6,18,000

Additional Information :

Debtors turnover ratio : 10 times

Net Profit Margin : 15%

360 days in a year.

Required:

(i) Sales amount (ii) Current ratio (iii) Liquid ratio
(iv) Debt Equity ratio (v) Average collection period
(vi) Debtors turnover ratio (vii) Earning per share 7

12. The opening and closing balances of different accounts are as under:

Particulars	Opening Balance (Rs)	Closing Balance (Rs)
Sundry Debtors	30,000	50,000
Inventories	1,00,000	1,10,000
Cash at bank	11,000	18,500
Sundry creditors	71,000	94,000
Outstanding expenses	7,500	5,500
Fixed Assets	1,40,000	1,88,000
10% debentures	75,000	50,000
Share capital	1,53,000	2,04,000

Required:

(i) Schedule of changes in working capital
(ii) Funds Flow Statement 3+2=5

13. The following details are provided:

a)	Retained Earning	Rs. 10,000
b)	Dividend paid	Rs. 5,000
c)	Interest on investment	Rs. 1,000
d)	Tax paid	Rs.1,000
e)	Depreciation on fixed assets	Rs.1,000
f)	Sale of furniture (Cost Rs. 6000)	Rs. 7,000

Required : Funds from operation 2

14. The company's Balance Sheet for two years have been given below:

Liabilities	I	II	Assets	I	II
Share capital	10,00,000	12,00,000	Fixed assets	11,85,000	15,75,000
Share premium	1,00,000	1,20,000	Stock	1,00,000	2,00,000
Debentures	2,00,000	1,00,000	Debtors	3,00,000	2,00,000
Bills payable	1,00,000	80,000	Cash	2,00,000	1,00,000
Bank overdraft	2,00,000	3,00,000	Pre-paid exp.	15,000	25,000
Retained earning	1,80,000	2,70,000			
Other & exp.	20,000	30,000			
	18,00,000	**21,00,000**		**18,00,000**	**21,00,000**

Additional information:

a) Sales for the year Rs.9,00,000
b) Cost of goods sold Rs.4,00,000
c) Operating expenses Rs.2,40,000 (Including depreciation Rs.40,000)
d) Fixed assets purchased Rs.6,00,000 and fixed assets costing Rs.40,000 have been sold for Rs.50,000.
e) Dividend paid for the year Rs.50,000

Required: Cash Flow Statement by applying Direct Method. 10

15. Following information is given:

a)	Net profit for the year	Rs.60,000
b)	Interest on investment	Rs.2,000
c)	Loss on sales of plant	Rs.3,000
d)	Provision for tax	Rs.15,000
e)	Depreciation on fixed assets was	Rs.10,000
f)	Salary paid	Rs.20,000.

Opening and Closing Balances:

Particulars	**1st Jan.**	**31st Dec.**
Stock Rs.	4,00,000	4,30,000
Sundry Debtors	2,00,000	1,50,000,
Account Receivable	10,000	5,000
Sundry Creditors	1,00,000	90,000
Bills Payable	25,000	40,000

Required : Cash from operating activities by using indirect method. 5

16. The following transactions relating to the receipt and supplies of the materials on the basis of :

July 1	Opening balance 500 units @ Rs. 5 per unit
5	Received 100 units @ Rs. 6 per unit
7	Issued 400 units
8	Stock verification reveals loss of 20 unit
12	Received 200 units @ Rs.7 per unit
15	Issued 300 units
20	Return to store 40 unit
25	Received 500 units @ Rs. 8 per unit
30	Return to vendors 30 units

Required: Store ledger under LIFO method. 5

17. The following information is given by a company:
Annual requirement Rs.32,000
Cost of placing one order Rs.400
Procurement cost (unit cost) Rs.100
Average inventory carrying cost 10% of unit cost
Required: Economic Order Quantity 2

18. Maximum consumption 800 units.
Normal consumption 600 units
Lead time 8-10 days
Required: Minimum stock level. 2

19. Following information are given:
Weekly working hours 40 hrs.
Total working weeks 10 weeks
Hourly output 8 units
Wage rate per unit of output Rs.2
Required: Total wage payable under Piece wage system. 2

20. Following was the details of cost and profit for 400 units with produced and sold during 2067:

Raw material	Rs. 40,000
Labour	Rs. 20,000
Factory overheads	Rs. 16,000
Office overheads	Rs. 7,600
Selling expenses	Rs. 1,400

Profit 20% on selling price
The manufacturer decided to produce 200 units during 2068. It is estimated that-
a) The cost of raw material will be increased by 10%.
b) Wages cost will be increased by 25%.
c) Selling overhead per unit will be reduced by Rs. 0.50.
d) The rate of profit will remain the same.
Required: (i) Cost sheet (ii) Tender sheet 3+7=10

21. The net profit of a company for the year was Rs. 60,000 as shown by the Financial account.
a) Factory Overhead is not recorded in Cost Account Rs. 5,000
b) Selling Overhead under recorded in financial Account Rs. 2,000
c) Depreciation charged in Financial A/c Rs. 20,000 and in Cost Account Rs. 15,000.
d) Interest on Investment not included in Cost Account Rs. 2,000.
e) Income Tax Paid Rs. 15,000 .
f) Opening Stock shown only in Financial Account Rs. 5,000.
Required: Reconciliation statement between financial and cost account. 5

GLOBAL COLLEGE OF MANAGEMENT

Second Term Exam-2069

Grade: XII | Subject: Basic Mathematics | F.M.: 100

Time: 3:00 Hrs. | P.M.: 40

Set 'A'

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Group 'A' **[5×3×2=30]**

1. a) In how many ways can the letters of the word 'CALCULUS' be arranged so that the two C's do not come together?
   b) Find the term independent of x in the expansion of $\left(\frac{3x^2}{2}-\frac{1}{3x}\right)^9$.
   c) Show that the multiplication is a binary operation on the set $S=\{-1,0,1\}$ but the subtraction is not.

2. a) Find the equation of the tangent to the parabola $y^2=16ax$ at the point whose ordinate is $-4a$.
   b) Find the equation of the ellipse whose latus rectum is 3 and eccentricity is $\frac{1}{\sqrt{2}}$.
   c) If the coordinates of A, B, C and D be (1, 2, 2), (2, 4, 0) , (–3, 0, 1) and (–1, –2, 2) respectively, find the projection of CD on AB.

3. a) If $\vec{a}$ and $\vec{b}$ are two vectors of unit length and θ is the angle between them, show that $\frac{1}{2}\left|\vec{a}-\vec{b}\right|=\sin\frac{\theta}{2}$.
   b) Differentiate: $2\tanh^{-1}\left(\tan\frac{x}{2}\right)$
   c) Integrate: $\int\frac{dx}{(11+x)\sqrt{2+x}}$

4. a) Prove that: $\int\cos ec\,x\,dx=\log\left|\tan\frac{x}{2}\right|+C$
   b) Solve: $\left(x^2-ay\right)dx-\left(ax-y^2\right)dy=0$
   c) Solve: $\frac{dy}{dx}=\frac{xy+y}{xy+x}$

5. a) In a certain distribution, the following results were obtained. Mean = 45, Median = 48, coefficient of skewness = –0.4. Find the standard deviation and the coefficient of variation.
   b) Find the probability of getting two heads twice in 5 tosses of two coins.
   c) Graph the given systems of inequalities and find the vertices, if they exist: $x+2y\geq 0;\ 2x+y\leq 4$.

Group 'B' **[5×2×4=40]**

6. a) In how many ways can the letters of the word "ENGLISH" be arranged? How many of these arrangements do not begin with 'E'? How many begin with 'E' and do not end with 'H'?
   b) If the coefficients in three successive terms of the expansion of $(1+x)^n$ are 220, 495 and 792, find n.

7. a) Find the sum of the series upto infinity $1+\frac{1+3}{2!}+\frac{1+3+5}{3!}+\frac{1+3+5+7}{4!}+\ldots$
   b) If a and b are the elements of a group (G, o), then $aox=b$ and $xoa=b$ have unique solution in (G,o).

8. a) Find the equation of the tangent to the parabola $y^2=4ax$ at a point (x_1,y_1) on the parabola.
   b) Find the equation of the plane through (3, 2, 1) and perpendicular to the line joining (–5, 3, 7) and (2, –4, 5).

9. a) Integrate: $\int \frac{\sin hx\, dx}{4\tan hx - \operatorname{cosec} hx \sec hx}$

   b) Solve: $(1+x^2)\frac{dy}{dx} + y = e^{\tan^{-1}x}$

10. a) The chance that A can solve the problem is $\frac{3}{5}$ and the chance that B can solve the problem is $\frac{2}{3}$. Find the probability that
      i) the problem is solved by A and B
      ii) the problem is solved
      iii) none of them can solve the problem

   b) Solve the following equations using Gaussian elimination method:

$$x + 2y + 3z = 2$$
$$x + y - z = 1$$
$$2x + 3y + 2z = 3$$

Group 'C' **[5×6=30]**

11. Define linearly dependent and linearly independent vector. Examine whether the given vectors are linearly dependent or independent (2, 3, 4), (1, –1, 2) and (5, 6, 8).

12. i) Find the derivative by using first principle of: $x \log x$.
    ii) Verify Rolle's Theorem for the given function $f(x) = \sqrt{25 - x^2}$, $x \in [-5, 5]$.

13. From the following data between the ages of husbands and wife's, calculate the two regression equations and find the husband's age when wife's age is 20 and wife's age when husband's age is 30.

Wife's age (X)	18	20	22	23	27	28	30
Husband age (Y)	23	25	27	30	32	31	35

14. Maximize: $P = 70x + 50y$
    Subject to the constraints
$$4x + 3y \le 240$$
$$2x + y \le 100$$
    where $x, y \ge 0$.
    By using simplex method.

15. Solve the following system of equations by computing inverse by using Gauss Jordan method.
    $2x - y + 8z = 13;\ 3x + 4y + 5z = 18;\ 5x + 2y + 7z = 20$

GLOBAL COLLEGE OF MANAGEMENT

Second Term Exam-2069

Grade: XII Subject: Basic Mathematics F.M.: 100

Time: 3:00 Hrs. P.M.: 40

Set 'B'

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Group 'A' **[5×3×2=30]**

1. a) In how many ways can eight people be seated in a row of eight seats so that two particular persons are always together?

   b) If $x = y - \frac{y^2}{2} + \frac{y^3}{3} - \frac{y^4}{4} + \ldots$ show that

   $$y = x + \frac{x^2}{2!} + \frac{x^3}{3!} + \frac{x^4}{4!} + \ldots$$

   c) If a and b are elements of a group (G, *) and a * b = e then show that $b = a^{-1}$.

2. a) Find the equation of the hyperbola, if the distance between foci is 16 and eccentricity is $\sqrt{2}$.

   b) If the ordinate of a point on the parabola $y^2 = 4ax$ is twice the latus rectum, prove that the abscissa of this point is twice the ordinate.

   c) Find the ratio in which the yz-plane divides the join of the points (–2, 4, 7) and (3, –5, 8) and also find the co - ordinates of the point of intersection of this line with the yz - plane.

3. a) If $3\vec{i} + \vec{j} - \vec{k}$ and $\lambda\vec{i} - 4\vec{j} + 4\vec{k}$ are collinear vectors. Find the value of λ.

   b) Differentiate: $2\tan^{-1}(\tan h\frac{x}{a})$ w.r.t. 'x'.

   c) Evaluate: $\int \frac{x-2}{\sqrt{2x^2 - 8x + 5}}\, dx$

4. a) Evaluate: $\int \frac{dx}{(\sin x + \cos x)^2}$

   b) Solve: $\frac{dy}{dx} = -\frac{1 + \cos 2y}{1 - \cos 2x}$

   c) Solve: $(1 + xy)dx - xdy = 0$

5. a) If n = 10, $\Sigma X = 60$, $\Sigma Y = 60$, $\Sigma X^2 = 400$, $\Sigma Y^2 = 580$ and $\Sigma XY = 415$, find the correlation coefficient between the two variables.

   b) What is the probability of drawing a heart or a king from a deck of 52 cards?

   c) Graph the given system of inequalities and find the vertices. If they exist: $3x + y \leq 3$, $4 - y \leq 2x$.

Group 'B' **[5×2×4=40]**

6. a) In how many ways can the letters of the word "COMPUTER" be arranged so that
   i. all the vowels are always together?
   ii. the vowels may occupy only odd positions?

   b) If the three consecutive coefficients in the expansion of $(1+x)^n$ be 165, 330, 461, find n.

7. a) Sum to infinity the given series: $1 + \frac{1+2}{2!} + \frac{1+2+3}{3!} + \ldots$

   b) Let G = Q – {–1}, the set of all rational numbers without –1. Suppose an operation * on G defined by a * b = a + b + ab. Show that (G, *) forms a group.

8. a) Find the condition of tangency of the straight line y = mx + c to the parabola $y^2 = 4ax$.

   b) Find the equation of the plane through (–2,3,4) and perpendicular to the plane 2x+3y+4z=6 and 3x+2y+2z=8.

9. a) Evaluate: $\int \frac{\cos x - \sin x}{\sqrt{\sin 2x}}\, dx$

   b) Solve: $\frac{dy}{dx} = \frac{y}{x} + \sin\frac{y}{x}$.

10. a) If 20% of the electric bulbs manufactured by a company are defective, find the probability that out of 4 bulbs chosen at random

    a) 1 b) 0 c) at most 2 bulbs will be defective.

    b) Solve the given system of equations by Gauss elimination method:

$$2x + 3y + 4z = 20$$
$$3x + 4y + 5z = 26$$
$$3x + 5y + 6z = 31$$

Group 'C' **[5×6=30]**

11. Prove vectoricaly that: In any ΔABC

    i) $b = c\cos A + a\cos C$

    ii) $a^2 = b^2 + c^2 - 2bc\cos A$.

12. i) Find from first principles the derivative of: $\ln \tan^{-1} x$

    ii) Verify Lagrange's mean value theorem for the given function: $f(x) = x(x-1)^2$ in $[0,2]$.

13. The equation of two regressions lines are $4X - 5Y + 33 = 0$ and $20X - 9Y = 107$

    Find i) the mean of X and mean of Y.

    ii) the regression coefficients

    iii) the correlation coefficient between X and Y

    iv) the ratio of standard deviations of X and Y.

14. Maximize $P = 100x + 10y$ subject to

$$2x + 5y \le 20$$
$$2x + y \le 12$$
$$\text{where } x, y \ge 0$$

    By using Simplex method.

15. Solve the following system of equation by computing inverse matrix using Gauss Jordan method.

$$-2x + 2y + z = -4$$
$$-8x + 7y - 4z = -47$$
$$9x - 8y + 5z = 55$$

GLOBAL COLLEGE OF MANAGEMENT

Second Term Exam-2069

Grade: XII Subject: Business Mathematics F.M.: 100
Time: 3 hrs P.M.: 40

Set A

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Attempt All Questions.

Group 'A' [10×2×3 = 60]

1. a. If x= 4 + 5i and y = 4 - 5i, find the value of $x^2 - xy + y^2$.
   b. If U = {1, 2, 3, 4, 5, 6, 7, 8, 9, 10}, A = {x:x ≥ 4}, B = {x : x ≤ 8}, find $A \cap B$ and A – B.
2. a. If the nth term of an A.P. 23, 26, 29, 32, ….. is equal to the nth term of an A.P. 59, 58, 57, 56, ……, find the number of terms.
   b. The sum of a geometric series having common ratio 3 is 728 and the last term is 486. Find the first term.
3. a. How many plates of vehicles consisting 4 different digits can be made from the integers 4, 5, 6, 7, 8, 9?
   b. In how many ways can a committee of 5 members be selected from 6 men and 5 women consisting of 3 men and 2 women?
4. a. Solve the following by using Cramer's rule.

$$x - y = 1$$
$$7x + 4y = 18$$

   b. A (a, 0) and B(–a, 0) are two fixed points. Find the locus of the moving point P if $PA^2 + PB^2 = AB^2$
5. a. Find the point of intersection of the line joining two points (–1, –2) and (3, –5) and the X–axis.
   b. Evaluate: $\lim_{x \to 32} \frac{x^{1/5} - 2}{x - 32}$
6. a. A function f(x) is defined by

$$f(x) = \begin{cases} \frac{x^2 - 9}{x - 3} & \text{at } x \neq 3 \\ k & \text{at } x = 3 \end{cases}$$

   Find the value of k so that the function f(x) is continuous at x = 3.

   b. Find $\frac{dy}{dx}$ if $x^2 + y^2 = x^2 y^2$
7. a. Find the derivative of: $e^{3x}\sqrt{2x+5}$
   b. The demand function for a certain commodity is $P = \frac{1}{3}Q^2 - 10Q + 75$. Find the marginal revenue function.
8. a. Evaluate: $\int x \log x \, dx$
   b. If the marginal revenue function for output x is given by $MR = 3x^2 - 2x + 5$, find the total revenue function. Also deduce the demand function or law.
9. a. Evaluate: $\int \left(1 - \frac{1}{x^2}\right) e^{x + \frac{1}{x}} dx$
   b. Calculate S.D, from the following data:
   2, 3, 6, 9, 15
10. a. If 50 men working 8 hours a day, dig in 5 days, a trench of 275 cu.m. In how many days of 10 hour each could 40 men dig a trench of 330 cu.m, when the hardness of the ground in first case is twice than in the second and 3 men of the former can do the work of 4 men of the latter?
    b. A man buys a watch for Rs. 300 and marks it at such a price that he may make a profit of 25% after allowing a discount of 10% . Find his marked price.

Group 'B' [8×5 = 40]

11. Prove that:

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

12. Using first principle, find the derivative of : $x + \sqrt{x}$

13. The demand equation for a certain commodity is $p = \frac{1}{12}Q^2 - 10Q + 300$ $(0 \le Q \le 60)$. Find the value of Q and the corresponding price p that maximizes the revenue.

14. Find the extreme values of the function defined by $F = 10x + 15y$ over the convex polygon given by the inequalities:
$x + 2y \le 20,\ x + y \le 16,\ x \ge 0,\ y \ge 0$

15. Find the mean deviation and its coefficient from the median from the data:

Marks	0	10	20	30	40	50	60	70
No of Students	20	18	15	10	5	3	1	0

16. Ranju and Manju started a business with their respective capitals in the ratio of 3:8. At the end of of 4 months, Ranju withdraws $\frac{2}{3}$ of her capital and Manju withdraws $\frac{3}{4}$ of her capital at the end of 6 months. If at the end of a year, they made a profit of Rs. 1620, what should be the profit of each?

17. Is it profitable for a Kathmandu merchant to buy a Canadian draft in order to pay a debt of 3600 Canadian dollars when Rs. 70 = 1 Canadian dollar or remit the amount through London, the course of exchange being 4Pence = Rs. 5 and 1.8 Canadian dollars = £1 ?

18. The banker's discount on a bill drawn on Jan. 7 for 7 months and discounted on May 29 at 15% p.a is Rs. 238.65. Calculate the face value of the bill?

GLOBAL COLLEGE OF MANAGEMENT

Second Term Exam-2069

Grade: XII Subject: Business Mathematics F.M.: 100
Time: 3 hrs P.M.: 40

Set B

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Attempt All Questions.

Group 'A' [10×2×3 = 60]

1. a. If $-10 < 5x + 10 < 5$, prove that $-4 < x < -1$.
   b. If $A = \{1, 2, 3\}$ and $B = \{2, 3\}$, find a relation in $A \times B$ satisfying $x+y \geq 4$.
2. a. Divide 69 into three parts such that the parts may form an A.P. and the product of the first two terms is 483.
   b. Sum to n terms of the series $7 + 77 + 777 + \ldots \ldots$
3. a. In how many ways can the letters of the word 'MANAGEMENT' be arranged?
   b. In an examination paper of Business Mathematics, 10 questions are set. In how many ways can you choose 6 questions to answer?
4. a. If $A = \begin{bmatrix} 4 & 2 & -1 \\ 3 & -7 & 1 \end{bmatrix}$ and $B = \begin{bmatrix} 2 & 3 \\ -3 & 0 \\ -1 & 5 \end{bmatrix}$, find the products AB and BA. Comment on the results.
   b. If the slope of the line joining the points (x, 5) and (–1, 2) is $\frac{3}{4}$. Find the value of x. Also determine the distance between them.
5. a. Find the equation of a straight line passing through the point (1, 2) and making an intercept of 3 on the positive y-axis.
   b. Evaluate: $\lim_{x \to 5} \left(\frac{1}{x-5} - \frac{25}{x^3 - 5x^2} \right)$
6. a. The fixed cost a new product is Rs. 35,000 and the variable cost per unit is Rs. 500. If the demand function is $p = 5000 - 100x$, where x is the item demanded. Find the break even point.
   b. Find $\frac{dy}{dx}$ if $x = t^2 - 1$, $y = t^4 - 1$
7. a. Find $\frac{dy}{dx}$ when $y = \frac{1}{\sqrt{2x-3} - \sqrt{2x-5}}$
   b. Determine whether the function $f(x) = x^3 - 4x^2 + 5$ is increasing or decreasing at x = 1 and x = 4?
8. a. Evaluate: $\int \frac{x+2}{2x-5} dx$
   b. Evaluate: $\int_0^1 x^3 \sqrt{2 + 3x^4}\, dx$
9. a. If the marginal cost of the product is given by $MC = 36 - 20x + 6x^2$ and the fixed cost is Rs. 20, find the total cost function.
   b. Find the quartile deviation from following data:
   Height (in cm): 158, 156, 162, 161, 163, 164, 165, 159
10. a. A and B hired a pasture at Rs. 60 for 20 days. A puts in 20 cows for a certain number of days and pays Rs. 40. B puts in 15 c ows for the remaining days and pays the remaining sum. For how long, A puts his cows?
    b. A man sells two bicycles at Rs. 2475 each. If by selling them, he gains 10% on one and loses 10% on the other, find his gain or loss percent on the whole transaction.

Group 'B' [8×5 = 40]

11. Equations for two related markets A and B are given below. Find the equilibrium condition as well as equilibrium price for each market by using Cramer's rule.
    $D_A = 10 + P_B - P_A$ $S_A = 6 + P_A + 2P_B$
    $D_B = 12 + 2P_A - P_B$ $S_B = 19 + 3P_A - 5P_B$
12. Find from first principles, the derivative of $\frac{1}{x+3}$
13. Find the maximum and the minimum values of the function
    $f(x) = x + \frac{49}{x}$
14. Maximize: $Z = 9x + 7y$
    Subject to
    $x + 2y \leq 7$
    $x - y \leq 4$
    $x \geq 0, y \geq 0$

15. Following are the marks obtained by two students Ram and Hari in 10 tests of 100 marks each:

Test	1	2	3	4	5	6	7	8	9	10
Marks of Ram	54	60	56	68	72	52	48	76	80	44
Marks of Hari	66	57	51	72	69	63	60	54	75	48

Who is more consistent of performance?

16. A and B are partners. A contributes Rs. 2000 and B contributes Rs. 3000. A however acts as manager, the understanding being that of the profits, A should get 25% for his service as manager, the remaining to be divided in the ratio of their contributions. B gets Rs. 1350 in his share, what would A get?

17. A merchant of Kathmandu imports goods with 15200 Francs. The rate of remitting the amount through T.T. is Rs. 35.50 for a Franc, while the rate is 0.29 Franc for Rs. 10 if remitting through sight draft. Find which method is cheaper and by what amount?

18. If the banker's discount of Rs. 8000 at 5 per annum be equal to the true discount on Rs. 8735 for the same time at the same rate, when arethe sum due?

GLOBAL COLLEGE OF MANAGEMENT

Second Term Exam – 2069

Grade: XII Subject: Business Studies F.M.: 100
Time: 3 hrs. P.M.: 40

Set 'A'

Group A (Short answer questions)

Attempt any **Eight** questions:

1. Explain the concept and principles of scientific management. [2+6]
2. Define planning. Explain the process of planning. [2+6]
3. Explain personal and managerial qualities of leadership. [4+4]
4. What is programmed decision? Explain the importance of decision making. [2+6]
5. Explain the Maslow's need hierarchy theory of motivation. [8]
6. Explain the term authority and responsibility. Make a distinction between delegation of authority and decentralization of authority. [2+6]
7. Define supervision. Explain the role of supervisor in an organization. [2+6]
8. Justify management as both science & art. [8]
9. What is line and staff organization? Explain its advantages. [2+6]
10. What is direction? Explain the principles of direction. [2+6]

Group B (Long answer questions)

Attempt any **Two** questions:

11. Describe about different styles of leadership. Discuss the functions of a managerial leader. [9+9]
12. Define hierarchy of management? What are the different levels of management? Mention the responsibility of each level of management. [3+6+9]
13. What is departmentalization? Discuss the various methods of departmentalization. [4+14]

❁

GLOBAL COLLEGE OF MANAGEMENT

Second Term Exam – 2069

Grade: XII Subject: Business Studies F.M.: 100
Time: 3 hrs. P.M.: 40

Set 'B'

Group A (Short answer questions)

Attempt any **Eight** questions:

1. Suggest the various techniques of motivation. [8]
2. What do you mean by supervision? Explain the functions of supervisor. [2+6]
3. Define management. Explain the functions of management. [2+6]
4. Explain in brief the benefits and limitations of planning. [4+4]
5. What is decision making? Explain the steps involved in decision making process. [2+6]
6. Explain the various components of direction. [8]
7. What is leadership? Make a distinction between autocratic and democratic styles of leadership. [2+6]
8. Define organization. Why organization is important? [2+6]
9. What are the basic steps in organizing process? Explain. [8]
10. What is bureaucracy theory? What are the principles of bureaucracy as suggested by Max Weber. [2+6]

Group B (Long answer questions)

Attempt any **Two** questions:

11. Explain motivation including its process and discuss Maslow's theory of motivation. [3+3+12]
12. Discuss the different types of organization structure. [18]
13. What do you mean by scientific management? Explain the Fayols' administrative management theory. [4+14]

❁

GLOBAL COLLEGE OF MANAGEMENT

Second Term Exam-2069

Grade: XII Subject: Computer Science F.M.: 75
Time: 3:00 Hrs. P.M.: 30

Set A

Group A

Attempt **all** questions [10×4=40]

1. a. Define identifier and keywords. Write all the basic data types used in C language. [2+3]
   b. Define looping. Write a C program to calculate the sum of the following series $sum = 1 + \frac{1}{2} + \frac{1}{3} + ... \frac{1}{n}$ [2+3]
2. What is recursion? Write a recursive program to calculate factorial of given number. [3+7]
3. Write the importance of using pointer variable and also explain call by value and call by reference with the help of suitable respective examples. [4+6]
4. Define structure type employee with members: empid, name and salary. Write C program to read and write records of the employees from data file. [10]

Group B

Attempt **all** questions [5×7=35]

5. What is information system? Explain the various types of information system. [2+3]
6. What is DFD? Explain the importance of DFD with suitable diagram. [2+3]
7. Define DB and DBMS. Explain the advantages of database system over file processing system. [2+3]
8. What is ERD? Write its components. Design a suitable ERD for many to many relationship. [2+3]
9. What is computer networking? Explain the merits and demerits of computer networking. [2+3]
10. What is protocol? Explain the OSI reference model with respective protocols. [1+4]
11. Write short notes(Any two): [2.5×2=5]
    a) Packet Switching b) Use Case Diagram c) DDL

GLOBAL COLLEGE OF MANAGEMENT

Second Term Exam-2069

Grade: XII Subject: Computer Science F.M.: 75
Time: 3:00 Hrs. P.M.: 30

Set B

Group A

Attempt **all** questions [10×4=40]

1. a. Distinguish variable and constant. Write the use of symbolic constant and escape sequence constant with respective examples. [2+3]
   b. Differentiate between looping and branching statements. Write a C program to display the multiplication table of given number. [2+3]
2. Differentiate between recursion and iteration. Write program to calculate power function $b=a^n$ using user defined function. [5+5]
3. Define string and table of strings? Write a program that takes 10 strings and reorder the strings in ascending order using table of strings. [3+7]
4. Define structure type book with members: bid, name and price. Write C program to read and write records of the books from data file. [10]

Group B

Attempt **all** questions [5×7=35]

5. Suppose a finance company is going to develop tailored made software. Which paradigm would you suggest for the development of software? And why? [1+4]
6. What is system analysis? Explain the importance of system analysis and system design phases in system development life cycle. [2+3]
7. Define the terms: primary key and foreign key with examples. Distinguish the terms: data integrity and data security. [2.5+2.5]
8. What is RDBMS? Explain advantages of distributed database system over centralized database system. [2+3]
9. What is transmission media? Explain all types of guided and unguided transmission media. [1+4]
10. What is network topology? Differentiate between star topology and ring topology. [1+4]
11. Write short notes (any two) [2.5×2=5]
    a) Decision table b) Data Dictionary c)Router

GLOBAL COLLEGE OF MANAGEMENT

Second Term Exam – 2069

Grade: XII Subject: Economics F.M.: 100

Time: 3 hrs. P.M.: 40

Set 'B'

Long answer question

1. Distinguish between desire and demand. Explain law of demand. [2+8]
2. Define price elasticity of demand. Explain its various degrees. [2+8]
3. Explain law of substitution. [10]
4. Critically examine Malthusian theory of population. [10]

Or

Define monopoly market. How equilibrium price and output is determined under it? [2+8]

5. Explain quantity theory of money. [10]
6. Short answer questions (answer any **eight**) [8×5 = 40]
   a. Explain about limitations and exceptions of law of supply.
   b. Explain concept of consumer's surplus.
   c. What are the features of land? Explain.
   d. Define concept of returns to scale. Explain decreasing returns to scale.
   e. Derive all short run average cost curves.
   f. Explain features of perfect competition market.
   g. Discuss about features of partnership organization.
   h. What are criticisms of Ricardian Theory of rent? Explain.
   i. Explain uncertainty bearing theory of profit. What are its criticisms.
   j. Describe functions of money.
7. Very short answer questions (answer **all** questions) [5×2= 10]
   a. Define cross elasticity of demand.
   b. What are assumptions of law of variable proportion?
   c. Distinguish between gross profit and net profit.
   d. Define TR. AR and MR.
   e. What is deflation?

GLOBAL COLLEGE OF MANAGEMENT

Second Term Exam – 2069

Grade: XII Subject: Economics F.M.: 100

Time: 3 hrs. P.M.: 40

Set 'A'

Long Answer Question

1. Define demand. Explain the determinants of demand. [2+8]
2. Explain total outlay method of measurement of price elasticity of demand. [10]
3. State and explain law of diminishing marginal utility. What are its limitations? [7+3]
4 Explain optimum theory of population. Why this theory is superior than Malthusian theory of population? [7+3]

Or

Define perfect competition market. How equilibrium price and output is determined under it? [2+8]

5. Critically explain quantity theory of money. [10]
6. Short answer questions (answer any **eight**) [8×5 = 40]
   a. State and explain law of supply.
   b. What are criticisms of consumer's surplus?
   c. Explain the features of capital.
   d. What is concept of returns to scale? Explain increasing returns to scale.
   e. Derive all short run total cost curves.
   f. Explain features of monopoly market.
   g. Discuss about characteristics of Joint Stock Company.
   h. Explain Ricardian theory of rent.
   i. Explain Risk bearing theory of profit. What are its criticisms?
   j. State and explain difficulties of barter exchange system.
7. Very short answer questions (answer **all** questions) [5×2= 10]
   a. Define income elasticity of demand.
   b. State limitations of law of variable proportion.
   c. Distinguish between gross interest and net interest.
   d. Define TP, AP and MP.
   e. What is inflation?

GLOBAL COLLEGE OF MANAGEMENT

Second Term Exam-2069

Grade: XII | Subject: Hotel Management | F.M.: 75
Time: 3:00 Hrs. | F.M.: 28

SET-A

Candidates are required to give their answer in their own words as far as practicable.

A) Write (T) for True (F) False [5× 1= 5]

a) Credit card transaction comes under city ledger.
b) Frill clothes are laid on the table in the same way as table clothes are laid.
c) No show is a term where guest does not arrive inspire of confirmed reservation.
d) Silvo is a liquid cleaning agent for silverware.
e) Slip cloth is laid over the multon.

B) Long questions (Attempt any) [3× 10= 30]

a) Define stock and write down the preparation methods of brown stock.
b) What are the various steps involved in cleaning an Departure room. Explain the steps in sequence.
c) Defien reservation and Write down the Factor affecting of reservation.
d) Write down the types of mother sauce and any two mother sauce preparation methods.

C) Short questions (Attempt any six) [6× 5= 30]

a) What are the difference types of cleaning? Explain.
b) Write down the difference between Tufted and woven carpet.
c) Write the step by step procedure of bathroom cleaning.
d) Write down the difference between American service and Platter service.
e) Define sandwich and write the types of sandwich.
f) Explain the term Accompaniment and Garnish.
g) What do you mean by Hotel Plan? Explain it.
h) Write regret Letter to Goldengate Travels for their 15 double room booking from 1-3rd Jan 2012

D) Write short Note [5× 1= 5]

a) Cover b) Briefing c) Log book d) Wake up call e) Mopping

E) Write Full Form [0.5× 10= 5]

a) NATTA b) TDH c) EPNS d) POS e) EDR
f) EMT g) ODC h) NTB i) IATA j) CDP

GLOBAL COLLEGE OF MANAGEMENT

Second Term Exam-2069

Grade: XII | Subject: Hotel Management | F.M.: 75
Time: 3:00 Hrs. | F.M.: 28

SET-B

Candidates are required to give their answer in their own words as far as practicable.

A) Write Full Form [0.5× 10= 5]

a) KOT b)) G.N.S. c) C.I.P. d) P.O.S. e) W.T.O
f) T.A.A.N g) N.A.R.A. h) I.H.A. i) Y.W.C.A. j) C.D.P

B) Write short Note [5× 1= 5]

a) De-briefing b) skipper c) Rack Rate d) Tariff e) Hotel plan

C) Write (T) for True (F) False [5× 1= 5]

a) Rack rate is also known as published rate.
b) Aerated drinks have CO2.
c) Wines are distilled alcohol beverage.
d) Bin card is used in reservation rack.
e) Traveler's cheque is produced by Travel agents.

D) Long questions (Attempt any) [3× 10= 30]

a) Define reservation and write down the process of reservation.
b) Discuss the step by step procedure of cleaning an occupied room.
c) Define Reservation and explain its Mode of payment.
d) Define cooking and write down the cooking method of any 2 moist heat medium.

E) Short questions (Attempt any six) [6× 5= 30]

a) What are the aims and objective of cooking?
b) Make a drawing of soup and explain the types of soup.
c) Show the difference between woven and Non-woven carpet.
d) Write the steps of attending a vacant room.
e) Define floor and write down their types.
f) Define tariff and explain its types
g) What are the purposes of reservation?
h) Define sandwich and write down their types.

GLOBAL COLLEGE OF MANAGEMENT

Second Term Exam-2069

Grade: XII Subject: Marketing F.M.: 80
Time: 3:00 Hrs. P.M.: 32

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

GROUP-A

Brief Answer Questions [10×1=10]

Attempt ALL the questions:

1. Define marketing mix.
2. What are 7Ps?
3. Identify any three characteristics of consumer.
4. Point out any two strengths and two weaknesses of road transport.
5. What is internal marketing environment?
6. Point out any four types of discounts.
7. What is pricing?
8. Point out any two physical distribution functions
9. What is industrial product?
10. Who are the members of channel?

GROUP-B

Short Answer Questions [5×8=40]

Attempt any FIVE questions:

11. Why marketing important to customer and society? Explain.
12. What are the differences between selling concept and marketing concept?
13. What is water transport? Why is it important to a landlocked country like Nepal? Explain briefly.
14. Describe the channel designs for consumer products.
15. Explain the functions of packaging.
16. Describe the types of labeling and its contents.

GROUP-C

Comprehensive Answer Questions [2×15=30]

Attempt any TWO questions

17. Explain the importance of pricing to company, customer and economy.
18. What are price factors? Explain
19. Describe various distribution function the product concepts with examples.

***

GLOBAL COLLEGE OF MANAGEMENT

Second Term Exam-2069

Grade: XII Subject: Marketing F.M.: 80
Time: 3:00 Hrs. P.M.: 32

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

GROUP-A

Brief Answer Questions [10×1=10]

Attempt ALL the questions:

1. Define marketing mix.
2. What are 7Ps?
3. Identify any three characteristics of consumer.
4. Point out any two strengths and two weaknesses of road transport.
5. What is internal marketing environment?
6. Point out any four types of discounts.
7. What is pricing?
8. Point out any two physical distribution functions
9. What is industrial product?
10. Who are the members of channel?

GROUP-B

Short Answer Questions [5×8=40]

Attempt any FIVE questions:

11. Why marketing important to customer and society? Explain.
12. What are the differences between selling concept and marketing concept?
13. What is water transport? Why is it important to a landlocked country like Nepal? Explain briefly.
14. Describe the channel designs for consumer products.
15. Explain the functions of packaging.
16. Describe the types of labeling and its contents.

GROUP-C

Comprehensive Answer Questions [2×15=30]

Attempt any TWO questions

17. Explain the importance of pricing to company, customer and economy.
18. What are price factors? Explain
19. Describe various distribution function the product concepts with examples.

***