

MID-WESTERN UNIVERSITY
FACULTY OF MANAGEMENT
FINAL EXAMINATION: 2073
BACHELOR OF BUSINESS STUDIES (BBS)
SEMESTER - II

Subject: Business Statistics - I
Full Marks: 100

Course Code: MGMT 321
Time: 3:00 Hours

You are required to answer in your own words as far as applicable. Figures in the margins indicate full marks.

SECTION A: VERY SHORT ANSWER QUESTIONS (10 X 2 = 20 MARKS)

Answer **ALL** questions.

- Q1. What do you mean by statistics?
- Q2. Find the median value by empirical relationship if mean $(\bar{X}) = 42.2$ and mode = 41.3.
- Q3. The average wage of the male workers working in a factory is Rs. 80 and the number of workers is 100. The average wage of the female workers is Rs. 70 and their number is 50. Find the average wage of all the workers taken together.
- Q4. If the sum of upper quartile and lower quartile is 20 and their difference is 10. Find the value coefficient of quartile deviation.
- Q5. An analysis of the monthly wages paid to workers in the firms A and B belonging to the same industry gives the following results.

	Average wages (Rs)	S.D. of wages (Rs)
Firm A	480	20
Firm B	475	25

Which market shows greater variation in individual wages?

- Q6. For 50 pairs of observations on two variables sales (X) and pricing (Y), the following results were obtained. $\sum X = 75$, $\sum Y = 80$, $\sum X^2 = 130$, $\sum Y^2 = 140$, $\sum XY = 120$. Find out if there exists any relationship between sales and pricing.
- Q7. For a given set of data $\sum XY = 190$, $\sum X^2 = 165$, $\sum Y^2 = 220$, $\sum X = 25$, $\sum Y = 30$, $n = 5$. Find the equation of regression line Y on X. Estimate the value of Y when X = 8.
- Q8. If $A = \begin{pmatrix} 1 & 0 \\ 2 & -3 \end{pmatrix}$ and $B = \begin{pmatrix} 1 & -1 \\ 0 & 1 \end{pmatrix}$, Find AB
- Q9. Evaluate the determinant:

$$\begin{vmatrix} a+b & a-b \\ a-b & a+b \end{vmatrix}$$
- Q10. What is the probability of giving a child birth by a pregnant woman on Sunday of a week?

SECTION B: SHORT ANSWER QUESTIONS (6 X 8 = 48 MARKS)

Answer any **SIX** questions.

- Q11. Distinguish between primary and secondary data. What are the different methods of collecting secondary data? (8)
- Q12. For a certain frequency distribution of 51 households, calculate the missing frequencies if arithmetic mean is 5. (8)
- | | | | | | | |
|-------------------|---|---|---|----|---|---|
| Size | 2 | 3 | 4 | 5 | 6 | 7 |
| No. of households | 2 | 3 | ? | 21 | ? | 5 |
- Q13. For a group of 200 candidates, the mean and standard deviation were found to be 40 and 15 respectively. Later on it was discovered that the score 43 was misread as 53. Find the correct mean and standard deviation corresponding to the corrected figures. (8)
- Q14. What do you mean by correlation coefficient between two variables? While calculating the coefficient of correlation between two variables X and Y, the following results were obtained: (2+6)
- | | | |
|------------------|------------------|-----------------|
| N = 30 | $\sum X = 120$ | $\sum Y = 90$ |
| $\sum X^2 = 600$ | $\sum Y^2 = 250$ | $\sum XY = 356$ |
- Later it was found that two pairs of observations were wrongly entered as (8, 10) and (12, 7) instead of (8, 12) and (10, 8) respectively. Calculate the correct value of correlation coefficient.
- Q15. The following information regarding the expenditure on advertising and sales.

	Mean (Rs. lakh)	Standard deviation (Rs. lakh)
Advertising Expenditure (Lakhs Rs.)	Rs. 10	Rs. 3
Sales (Lakhs Rs.)	Rs. 90	Rs. 12
Correlation coefficient	0.8	

- (a) Calculate the two regression lines. (6)
- (b) What should be advertisement expenditure if the company wants to attain sales target of Rs. 120 lakhs? (2)
- Q16. Find the matrices A and B such that: (8)
- $$A + 2B = \begin{pmatrix} 3 & 2 & 0 \\ 3 & 3 & 5 \\ 4 & 4 & 6 \end{pmatrix}, 2A + B = \begin{pmatrix} 3 & 1 & 3 \\ 0 & 3 & 7 \\ 5 & 2 & 3 \end{pmatrix}$$
- Q17. Solve the equation by using Cramer's rule: (8)
- $$x + y + z = 10, 2x + z = 8, y + 2z = 12$$
- Q18. Find graphically the maximum value of : $Z = 3x + 3y$ (8)
- Subject to Constraints: $x + y \leq 5, x + 2y \leq 8, x, y \geq 0$

SECTION C: LONG ANSWER QUESTIONS (2 X 16 = 32 MARKS)

Answer any **TWO** questions.

- Q19. The following are the weekly production in units (output) of 60 workers of a factory.

72	23	48	51	64	82	12	33	50	39	57	35
88	77	25	39	52	48	64	49	52	41	72	62
49	32	54	67	46	55	57	82	44	75	56	51
63	59	69	53	42	75	85	68	55	52	45	40
57	20	75	46	51	50	16	62	56	54	40	55

The management has decided to give bonus of Rs. 5000, Rs. 6000, Rs. 7000, Rs.8000 and Rs. 9000 to each worker in the respective output group 40 to 50, 50 to 60 and so on.

Find:

- Mean output of all the workers (4)
 - Average bonus received by the workers (4)
 - Standard deviation of bonus. (8)
- Q20. Goals scored by two teams A and B in a football season were as follows:

Number of goals scored	Numbers of matches	
	Team A	Team B
0	27	17
1	9	9
2	8	6
3	5	5
4	4	3

Find which team may be considered to be more consistent. (16)

- Q21. A consumer product company wants to measure the effectiveness of different types of advertising media in the promotion of its product. Specifically, the company is interested in the effectiveness newspaper advertising. A sample 69 cities with approximately equal populations is selected for study during a test period of one month. The data of sales of the product and newspaper advertising media expenditure are given below.

Advertising expenditure	Sales of the product				
	0-500	500-1000	1000-1500	1500-2000	2000-2500
0-200	12	6	-	-	-
200-400	2	18	4	2	1
400-600	-	4	7	3	-
600-800	-	1	-	2	1
800-1000	-	-	1	2	3

Now you are required to find:

- Correlation coefficient. (12)
- Estimate the total sales of product when the advertising expenditure is Rs. 1200. (4)



MID-WESTERN UNIVERSITY
FACULTY OF MANAGEMENT
FINAL EXAMINATION: 2073
BACHELOR OF BUSINESS STUDIES (BBS)
SEMESTER - II

Subject: Macro Economics
Full Marks: 100

Course Code: MGMT 322
Time: 3 Hours

You are required to answer in your own words as far as applicable. Figures in the margins indicate full marks.

SECTION A: VERY SHORT ANSWER QUESTIONS (10X 2 = 20 MARKS)

Answer **ALL** questions.

- Q1. Write any two differences between micro and macro economics.
- Q2. Find the equilibrium wage and working hours (w) in labour market with the help of following equations;
 $DL = 500 - 5w$ and $SL = 20 + 10w$
- Q3. What is unemployment? What are its types?
- Q4. Write down any two main propositions of classical theory of employment.
- Q5. Compute the equilibrium level of income and consumption from the following equations;
Consumption function (c) = $200 + 0.6Y$ and autonomous investment (I) = 400
- Q6. Define marginal propensity to consume (MPC) and average propensity to consume (APC).
- Q7. Show the graphical sketch of comparative macro static.
- Q8. Distinguish between inflation and deflation.
- Q9. List any four characteristics of business cycle.
- Q10. What is meant by fiscal policy?

SECTION B: SHORT ANSWER QUESTIONS (6 X 8 = 48 MARKS)

Answer any **SIX** questions.

- Q11. Define macroeconomics. Discuss the use of macroeconomics in business decision making. [2+6]
- Q12. Consider the following hypothetical national income data.

Items	(Rs. in millions)
Private consumption expenditure	10,000
Gross private investment	2,000
Government expenditure	1,000
Export	500
Import	1,500
Depreciation	900
Net factor income from abroad	4,000
Indirect taxes	2,000
Subsidies	1,000

Required:

- a) Calculate GDP at MP b) Calculate GNP at MP c) Calculate NNP at MP [8]
- Q13. Analyze and illustrate the circular flow of income and expenditure in three sector economy. [8]
- Q14. Explain the concept of investment multiplier. What are its leakages? Discuss. [2+6]
- Q15. The saving function of an economy is estimated to be $S = -20 + 0.2Y$ where income, saving and investment are measured in billion. Autonomous investment in the economy is 100 billion.
 - a) Find the equilibrium level of income, consumption and saving. [3]
 - b) If saving increased by 10 billion, what is the new level of equilibrium income, consumption and saving? [3]
 - c) Does it reflect the notion of paradox of thrift? [2]
- Q16. What is trade cycle? Explain the different phases of trade cycle. [2+6]
- Q17. Explain the role of central bank to run the economic system. [8]
- Q18. Define budget. How budget is formulated in Nepal? [2+6]

SECTION C: LONG ANSWER QUESTIONS (2 X 16 = 32 MARKS)

Answer any **TWO** questions.

- Q19. Explain the Keynesian theory of employment with its assumptions. What are its criticisms? [12+4]
- Q20. Analyze the Hicks and Hansen model of income determination with the help of IS-LM approach. [16]
- Q21. What is inflation? Describe the various effects of inflation for economic development of Nepal. [3+13]

MID-WESTERN UNIVERSITY
FACULTY OF MANAGEMENT
FINAL EXAMINATION: 2073
BACHELOR OF BUSINESS STUDIES (BBS)
SEMESTER - II

Subject: Introduction to Finance -I
Full Marks: 100

Course Code: MGMT 323
Time: 3 Hours

You are required to answer in your own words as far as applicable. Figures in the margins indicate full marks.

SECTION A: VERY SHORT ANSWER QUESTIONS (10X2 = 20 MARKS)

Answer **ALL** questions.

- Q1. What is agency relationship?
 Q2. Write the formula of weighted average cost of capital.
 Q3. Give the concept of payback period.
 Q4. List out the activities involved in cash flow statement.
 Q5. Differentiate between compounding and discounting method of time value of money.
 Q6. List out any four limitations of financial ratio.
 Q7. You are given the following information of Narayan Book Stores.
 Total sales 26,000 unit, ordering cost Rs. 30, carrying cost 5% of purchase price of Rs. 50,
 Calculate EOQ and average inventory.
 Q8. The Shakti Gas Company has an inventory conversion period of 75 days, a receivable conversion period of 38 days and a payable deferral period of 30 days. Calculate the cash conversion cycle and operating cycle.
 Q9. A perpetual bond sold at par, coupon interest rate of 8% and the tax rate 40%. Calculate after tax cost of debt.
 Q10. Write the Du-Pont equation of ROA and ROE.

SECTION B: SHORT ANSWER QUESTIONS (6 X 8 = 48 MARKS)

Answer any **SIX** questions.

- Q11. “Financial management is an art and science of managing money in the organization”. In the light of this statement, describe the function of financial management. [2+6]
 Q12. What is financial ratio? Explain briefly the various usages of financial ratio. [2+6]
 Q13. Differentiate between profit maximization and wealth maximization objectives of financial management. [8]
 Q14. Complete the assets side of balance sheet and sales information in the table that follows financial data: [3+3+1+1]

Debt ratio	= 50%	Quick ratio	= 0.8 times
Total assets turnover	= 1.5 times	DSO	= 36 days
Gross profit margin	= 25%	Inventory turnover	= 5 times
Long term debt	= Rs. 60,000	Retained earnings	= Rs. 97,000

Cash
Account receivable
Inventories
Fixed assets
Total assets	Rs. 300,000
Sales

- Q15. Surkhet Transport Company has current assets of Rs. 800,000 and current liabilities of Rs. 500,000. What would be the effect of following transactions on the firm’s current ratio?

- a) Two new trucks are purchased for a total of Rs. 100,000 in cash. [2]
 b) The company borrows Rs. 100,000 on short-term basis to carry on increase in receivables of the same amount. [2]
 c) Additional common stock of Rs. 200,000 is sold and the proceeds invested in the expansion of several terminals. [2]
 d) The company increases accounts payable to pay a cash dividend of Rs. 40,000 out of cash. [2]
- Q16. Compute the following:
 a) How many years will it take to double of sum at an 8% interest rate? [4]
 b) Which amount is worth more at 14%, Rs. 2,000 in hand today or Rs. 4,000 dues in 6 years? [4]
- Q17. The Surya trade link's EPS was Rs. 6.50 in 2002 and Rs. 4.42 in 1997. The company pays out 40% of its earning as dividends, and the stock sells for Rs. 36.
 a) Calculate the past growth rate in earnings. [3]
 b) Calculate the next expected dividend per share. [2]
 c) What is the cost of retained earnings for the company? [3]
- Q18. Find the present value of the following ordinary annuities:
 a) Rs. 400 per year for 10 years at 10%. [2]
 b) Rs. 400 per years for 5 years at 0%. [2]
 c) Now rework part (a) and (b) assuming that they are annuities due. [4]

SECTION C: LONG ANSWER QUESTIONS (2 X 16 = 32 MARKS)

Answer any **TWO** questions.

- Q19. Give the concept of working capital. Explain the various factors that affect the working capital of a business organization. [4+12]
 Q20. Prepare the cash flow statement from following Balance Sheet of XYZ Company for the year 2008. Net income for the year is Rs. 330,000. [6+4+6]

Assets	2007	2008	Liabilities	2007	2008
Cash	3,500	15,000	Accounts payable	9,000	7,500
Marketable Securities	0	5,500	Notes payable	1,500	7,500
Bills Receivable	15,000	11,000	Other current liabilities	7,500	3,500
Inventories	26,500	30,000	Long term debt	4,000	12,000
Gross Fixed Assets	37,500	62,500	Common Stock	14,500	28,500
Less: Accumulated Depreciation	12,500	17,500	Retained Earnings	33,500	47,500
Total	70,000	106,500	Total	70,000	106,500

- Q21. Project S costs Rs 15,000 and it is expected to produce benefits (cash flow) of Rs. 4,500 per year for 5 years and project R costs Rs. 37,000 and it is expected to produce (cash flow) of Rs. 11,000 per year for 5 years. Calculate the NPV, IRR and payback period for each project assuming a required rate of return of 14%. If the projects are independent which project/s should be selected? [6+6+4]

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FINAL EXAMINATION: 2073
BACHELOR OF BUSINESS STUDIES (BBS)
SEMESTER - II

Subject: Computers in Management
Full Marks: 100

Course Code: MGMT 324
Time: 3 Hours

You are required to answer in your own words as far as applicable. Figures in the margins indicate full marks.

SECTION A: VERY SHORT ANSWER QUESTIONS (10X 2 = 20 MARKS)

Answer **ALL** questions.

- Q1. Why computer is called versatile machine?
- Q2. Why utility program is called doctor for computers?
- Q3. What is control unit?
- Q4. Why feasibility study is important in system development phase.
- Q5. What are the uses of Network Interface Card (NIC)?
- Q6. Why MODEM is needed to connect internet through telephone line?
- Q7. Which protocols are used to send and receive email message?
- Q8. Differentiate between client server architecture and peer to peer architecture.
- Q9. Define system software.
- Q10. Write any four uses of internet.

SECTION B: SHORT ANSWER QUESTIONS (6 X 8 = 48 MARKS)

Answer any **SIX** questions.

- Q11. How is the Fifth Generation computer different than others? Explain. [8]
- Q12. Explain system development life cycle with the help of diagram. [8]
- Q13. What is communication protocol? List out any four protocols. [6+2]
- Q14. What is web browser? Explain its types. [3+5]
- Q15. Why star topology is known as the best topology among others? Write any 3 disadvantages of star topology. [5+3]
- Q16. How e-commerce is different than e-business? Explain. [8]
- Q17. Why search engine is basic element of internet? List out any four examples of search engine. [6+2]
- Q18. How intranet is different from internet? Justify the necessity of intranet. [4+4]

SECTION C: LONG ANSWER QUESTIONS (2 X 16 = 32 MARKS)

Answer any **TWO** questions.

- Q19. What is computer? Explain it with its block diagram. [2+14]
- Q20. What are the characteristics of computer? Explain them. [16]
- Q21. What are software development phases? Describe each of them. [16]



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FINAL EXAMINATION: 2073
BACHELOR OF BUSINESS STUDIES (BBS)
SEMESTER - II

Subject: Agri-Business Management
Full Marks: 100

Course Code: MGMT 325
Time: 3:00 Hours

You are required to answer in your own words as far as applicable. Figures in the margins indicate full marks.

SECTION A: VERY SHORT ANSWER QUESTIONS (10 X 2 = 20 MARKS)

Answer **ALL** questions.

- Q1. Write any four problems of agriculture marketing in Nepal.
- Q2. What is Agri-business management?
- Q3. Write the full form of NARC.
- Q4. Define quality product.
- Q5. Point out any four advantages of floriculture industry in Nepal.
- Q6. What is Breed Management?
- Q7. Point out the factors to consider when chicks packing.
- Q8. What is the status of fruit export in Nepal?
- Q9. Define pre harvest of fruits.
- Q10. State any four methods of storage of fruits.

SECTION B: SHORT ANSWER QUESTIONS (6 X 8 = 48 MARKS)

Answer any **SIX** questions.

- Q11. What is Agro processing? Discuss the policy change relating to farm supplies. (3+5)
- Q12. What is agriculture marketing? How to improve the agriculture marketing in Nepal? (3+5)
- Q13. Define bio-tech industries. Discuss the needs and application of bio- technology for agriculture sector and its benefit. (3+5)
- Q14. What is disease surveillance? Explain the objectives of disease surveillance on agriculture sector. (3+5)
- Q15. What is floriculture? Write a note on development of floriculture industry in Nepal. (3+5)
- Q16. What is poultry industry? What are common equipment and physical facilities for hatchery industry? (3+5)
- Q17. What is crises management? Define the major factors of crises management in poultry industry. (3+5)
- Q18. What is post-harvest management? Distinguish between the post-harvest and pre harvest management. (3+5)

SECTION C: LONG ANSWER QUESTIONS (2 X 16 = 32 MARKS)

Answer any **TWO** questions.

- Q19. What is agriculture finance? Discuss the emerging trends in agro-production and recent changes on agri-business sector in Nepal. (3+6+7)
- Q20. Define hatchery planning. Mention the factors affecting the hatchability and also explain the organizing and managing of poultry industry. (3+5+8)
- Q21. What is fruits production? Discuss the potential of fruits production development in Nepal and management of fruits production technology for domestic market. (3+5+8)