



Instructor Name: Ms. Sahar Yousaf/ Ms. Sumayya/ Ms. Asma Halim/ Mr. Hazber Samson
Program: BBA
Course: Business Statistics

Date: 11/07/2023

Time Allowed: 2 hours

Max Marks: 40

Session: II

CLO1 (C1)	Understand the concepts of descriptive statistical techniques to solve business problems
CLO2 (C2)	Execute statistical techniques for the solution of business problems
CLO3 (C3)	Interpret the results of business problems for making effective business decisions

Instructions: 1. Attempt all questions.

2. Scientific calculators are allowed.

3. Return the question paper with your answer book.

Q#1)

Part a)

[CLO 1, Marks 4]

List down the five properties (rules) of Probability. Give examples where necessary

Part b)

[CLO 2, Marks 6]

During a sale at a clothing store, 16 white sweaters, 3 red sweaters, 9 blue sweaters, and 7 yellow sweaters were purchased. If a customer is selected at random, report (find) the probability that he bought

1. A red, a blue, or a yellow sweater
2. A yellow and a white sweater
3. A blue sweater given that white sweater was already bought

Part c). Report the probability of getting 3 heads when A coin is tossed 4 times. [CLO 2,

Marks 3]

Q#2) Recall the types of discrete probability distributions to answer the following questions

[CLO 2, Marks 4*4+3=19]

Part a) Three out of four American adults have eaten pizza for breakfast. If a random sample of 20 adults is selected, Report the probability that exactly 16 have eaten pizza for breakfast.

1/2

PTO



Bahria University, Islamabad Campus
Department of Business Studies
Final-Term Examination (Spring-2023)
Class: BBA (2(A) to 2(E))
Paper Type: Subjective

Course: Business Mathematics-II
Course Code: QTM-120
Teacher Names: Asim Shabir, Nazia Shahmir,
Sania Naseer, Dr. Nasir
Time Allowed: 2 Hours

Date: 4th July 2023
Time: 14:00 to 16:30
Max Marks: 40
Total Pages: 2

Instructions:
i. Attempt all questions.
ii. Your answer should focus on Quality not Quantity.

Student's Name: _____ Enroll No: _____

Q#1. a) Evaluate the integrals given below: (CLO-3,1)

i) $\int x^2 \ln 5x dx$ ii) $\int_1^2 \frac{2x}{\sqrt{x^2 + 8}} dx$ (8)

Q#2. a) A manufacturer has developed a new design for solar collection panels. Marketing studies have indicated that annual demand for the panels will depend on the price charge. The demand function for the panels has been estimated as: (CLO-2,1)

$$q = 100,000 - 200p \quad (4)$$

Where q equals the number of units demanded each year and p equals the price in dollars. Engineering studies indicate that the total cost of producing q panels is estimated well by the function,

$$C = 150,000 + 100q + 0.003q^2$$

Formulate the profit function $P = f(q)$ which states the annual profit P as a function of the number of units q which are produced and sold.

b) The total cost of producing q units of a certain product is described by the function: (CLO-2,1)

$$C = 5,000,000 + 250q + 0.002q^2 \quad (4)$$

Where C is the total cost stated in dollars. How many units should be produced to minimize the average cost per unit?

Q#3. a) Find the critical values of the following function: (CLO-2)

$$f(x) = \frac{4x^5}{5} - 324x \quad \checkmark \quad (2)$$

b) Sketch the graph of the function by using the condition of concavity: (CLO-2)

$$f(x) = \frac{x^6}{6} - 8x^2 - 10 \quad (6)$$



Q#4. a) Determine the locations of all inflection points on the graph of the function: (CLO-2)

$$f(x) = \frac{x^4}{12} - \frac{x^3}{2} + x^2 + 10 \quad (4)$$

b) Determine the absolute maxima and minima for the function: (CLO-2)

$$f(x) = 2x^2 - 4x + 5 \quad \text{at} \quad 2 \leq x \leq 8 \quad (4)$$

Q#5. a) Find $f'(x)$ of the following function: (CLO-2)

$$f(x) = \sqrt{\frac{x^2}{(5x-1)}} \quad (4)$$

b) The marginal revenue function for a company's product is $MR = 40,000 - 4x$, (CLO-3,1)

where x equals the number of units sold. If total revenue equals 0 when no units are sold, determine the total revenue function for the product? (4)

The End



Bahria University

Islamabad Campus

Midterm Examination Fall-2021

Department of Business Studies

Program: BBA-1st

Course: [ECO110] Microeconomics

Total Allowed Time: 90 minutes

Date: 11/12/2021

Total Marks: 25

Time:

Instructors: Ms. Sadaf Alam, Dr. Muhammad Usman, Dr. Uzma, Ms. Rabia, Mr Anwar Mughees

Note: attempt all questions.

Q1. [06 marks]

CLO 1,2

Production possibilities of Pakistan and India for a year are given as below:

Pakistan

Rice (Thousand Kgs)	0	200	400	600	800	1000
Wheat (Thousand Kgs)	190	175	140	115	80	0

India

Rice (Thousand Kgs)	0	190	240	360	480	510
Wheat (Thousand Kgs)	185	163	150	100	80	0

Requirements:

- Draw the PPF for both countries. Does opportunity cost show decreasing, increasing or constant opportunity cost for Rice?
- Which country has absolute advantage? Show the necessary calculation to determine comparative advantage in production of Rice and for the production of Wheat?

Q2. [04 marks]

CLO4

Solve the following questions.

- If a shopkeeper opens his shop for 8 hours a day his total revenues are \$100 and he pays \$ 30 in expenses. If he wants to open the shop for 2 more hours his expected revenue is \$ 140 and expected expenses are \$ 50. Is the decision to extend the shop timings by 2 more hours feasible? Why or Why not?
- Suppose you have been offered a choice of two part-time jobs: 15 hours a week stacking shelves at the medical store for Rs.150 per hour with one cup of tea per day; or 20 hours a week working in your own university as teaching assistant for Rs.180 per hour plus free medical insurance. Assuming that you can take only one of the jobs, find out:
 - The opportunity cost of taking the University job.
 - The opportunity cost of taking the medical store job.

Q3. [03 marks]

CLO 3

Explain with help of diagram that how economic institutions coordinate with each other in an economic activity?



Instructor Name: Ms. Sahar Yousaf/ Ms. Sumayya/ Ms. Asma Halim/ Mr. Hazber Samson
Program: BBA Course: Business Statistics

Date: 11/07/2023

Time Allowed: 2 hours

Max Marks: 40

Session: II

CLO1 (C1)	Understand the concepts of descriptive statistical techniques to solve business problems
CLO2 (C2)	Execute statistical techniques for the solution of business problems
CLO3 (C3)	Interpret the results of business problems for making effective business decisions

Instructions: 1. Attempt all questions.

2. Scientific calculators are allowed.

3. Return the question paper with your answer book.

Q#1)

Part a)

[CLO 1, Marks 4]

List down the five properties (rules) of Probability. Give examples where necessary

Part b)

[CLO 2, Marks 6]

During a sale at a clothing store, 16 white sweaters, 3 red sweaters, 9 blue sweaters, and 7 yellow sweaters were purchased. If a customer is selected at random, report (find) the probability that he bought

1. A red, a blue, or a yellow sweater
2. A yellow and a white sweater
3. A blue sweater given that white sweater was already bought

Part c). Report the probability of getting 3 heads when A coin is tossed 4 times [CLO 2, Marks 3]

Q#2) Recall the types of discrete probability distributions to answer the following questions

[CLO 2, Marks 4*4=16]

Part a) Three out of four American adults have eaten pizza for breakfast. If a random sample of 20 adults is selected, Report the probability that exactly 16 have eaten pizza for breakfast.

Q4. [06 marks]

CLO 2

We are in the Jeans market. Using supply-demand theory, show the likely effect of the following market developments on the equilibrium price and quantity for jeans. Use (+) sign for increase and (-) sign for decrease. Support your choices with demand supply curves shifting on market equilibrium. (*Note: Do in answer sheet*)

	Market Developments (Ceteris Paribus)	Equilibrium Price(+/-)	Quantity(+/-)	Graph
A	An increase in price of jeans			
B	A switch in women's fashion from jeans to dresses			
C	A drought causing a decrease in cotton production			
D	Expected increase in price of jeans			

Q4. [05 marks]

CLO 3

In a table given below, calculate Price elasticity of demand by mid-point method for price *decrease* and do the necessary calculations to fill out the spaces given below:

Price	Quantity	Total Revenue	Price Elasticity of Demand
\$5	5		
\$4		60	
\$3	40		
\$2		120	
\$1	80		

Best of Luck

Q # 3. Report Mode and D₇ for the following frequency distribution. [CLO 2, Marks 5]

Classes	9.8-10.2	10.3-10.7	10.8-11.2	11.3-11.7	11.8-12.2	12.3-12.7
f	7	12	17	14	6	4

Q # 4 Final Marks of 11 students in Business Statistics are as follows

9, 51, 58, 61, 65, 67, 72, 73, 75, 78, 85

Solve and interpret Quartile deviation and coefficient of variation. [CLO 3, Marks 5]

Q#5.(a). Report the correlation coefficient between persons employed and cloth manufactured by a textile mill. [CLO 2, Marks 4]

(b). Interpret your result. [CLO 3, Marks 1]

Persons employed (X)	137	209	113	189	176	200	219
Cloth manufactured (Y)	23	47	22	40	39	51	49



Bahria University
Islamabad Campus
Mid Term Examination (Spring 2023)
Business Studies Department

Instructor Name: Ms. Sahar yousaf/ Ms. Sumayya/Ms. Asma Halim /Mr. Hazber Samson

Program: BBA

Course: Business Statistics

Date: 08/04/2023

Time Allowed: 1.5 hours

Max Marks: 25

Session: I

CLO1 (C1)	Understand the concepts of descriptive statistical techniques to solve business problems
CLO2 (C2)	Execute statistical techniques for the solution of business problems
CLO3 (C3)	Interpret the results of business problems for making effective business decisions

Instructions: 1. Attempt all questions.

Q # 1. Define following terms with Examples (Where necessary)

[CLO 1, Marks 5]

- Descriptive and Inferential Statistics
- Primary and Secondary data
- Discrete and Continuous Variable
- Parameter and Statistic
- Absolute and Relative Dispersion,

Q # 2: Classify the following data in the form of frequency distribution. Also Present in Histogram or frequency polygon.

[CLO 2, Marks 5]

144 8	146 (2)(10)	142 6	140 4	138 3 2	163	154 (2)	150 (2)	136 2	143 (2) 7
100 1	192	187	173	155	188	186	184	156	191
150 14	148 12	157	155	153	169	146 10	158	151	159
183	171	179	177	175	182	196	180	173	156
151	141 5	149 13	147 11	145 9	153	178	158 (2)	143 7	150 (3)



Bahria University
Islamabad Campus
MID Term Examination (Spring 2023)
Management Studies Department

Instructor Name: Nazia Shahmir, Sania Naseer
Asim Shabbir, Dr Nasir

Program: BBA[4] -2A to 2G (Morning)

Course: Business Mathematics-II

Date: 07/04/2023

Time Allowed: 90 Minutes

Max Marks: 25

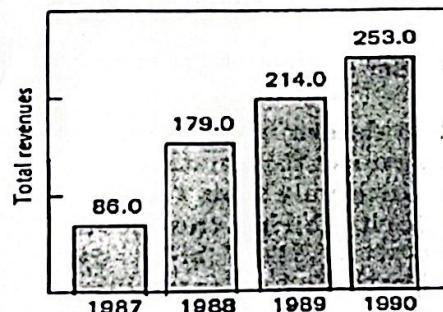
Session: I

Instructions: 1. Attempt all questions.
2. Your answer should focus on Quality not Quantity

Question#1 (CLO-1, PLO-3)

(3 marks)

Pay per view television (PPV) has been a growing option among TV viewers. With PPV, cable TV subscribers buy only the cable shows they wish to watch. Special events, such as championship boxing matches or live concerts, are prime PPV offerings. Figure summarizes total revenues (\$ millions) for the industry for four recent years. Determine the average rate of change in PPV revenues between 1987 and 1989, and between 1987 and 1990.



Question#2 (CLO-1&2, PLO-3)

(3 marks)

An object is launched from ground level with an initial velocity of 512 feet per second. The function which describes the height of the ball is

$$h=f(t)=512t-16t^2.$$

Where h is measured in feet and t is time measured in seconds since the ball was thrown.

- i. What is the velocity of the ball at $t=2$ seconds?
- ii. When will the ball return to the ground?
- iii. What is the velocity of the ball at the instant it hits the ground?

Question#3 (CLO-1&2, PLO-3)

(4 marks)

a) Evaluate $\lim_{x \rightarrow 3} \frac{x^2 - x - 6}{x - 3}$.

b) Find the derivative of the function w.r.t variable involved by limit approach.

$$f(x) = \frac{1}{\sqrt{x}}$$

Question#4 (CLO-1&2, PLO-3)

(9 marks)

a) Find $\frac{dy}{dx}$ by using chain rule. $y = f(u) = \ln(15 - u^3)$ and $u = g(x) = x^2 - 2x + 5$.

b) Find the derivative by using product rule. $f(x) = (x^{-3} - 4x^{-2} + 9)(\sqrt{x^2 - 5x + 3})$.

c) Determine $\frac{dy}{dx}$ by using Quotient rule $y = \sqrt[3]{\left(\frac{x^2}{5x-1}\right)^2}$.

Question#5 (CLO-1&2, PLO-3)

(6 marks)

a) Determine whether $f(x) = \frac{x^3}{3} + \frac{x^2}{2} - 6x$ is increasing or decreasing at $x=1$.

b) For $f(x) = x^4 + 2x^3 - 10x^2$, determine the concavity of f at $x=-2$ and $x=1$.

End of Question Paper



Bahria University
Islamabad Campus
Terminal Examination (Spring 2023)
Business Studies Department



Instructor Name: Ms. Beenish Ambreen, Ms. Amna Afzal, Ms. Adeela Iftikhar, Mr. Obaid

Program: BBA (2, A, B, C, D, E, F, G)

Course: Introduction to Sociology

Date: 6-7-2023

Time Allowed: 2 hours

Max Marks: 40

Session: II

CLO 1 (C2)	To understand the value of patience, tolerance, and better communication skills through sociological knowledge and to inculcate the idea of respecting genders, cultural diversity and social changes in different spheres of life
CLO 2 (C2)	Better understanding of the core social, cultural, ethical perspectives of Pakistani society, which helps to create curious minds and develop intellectual skills to identify and resolve issues as active members of society
CLO 3 (C2)	understanding and Application of sociological knowledge in everyday life. Students will be able to explain their thoughts through examples of society

Instructions: Q1 is compulsory

In long questions Attempt any three questions.

Q1) Give short answers to the following questions. (2x5= 10 marks) (CLO 2)

1. Describe the difference between Crime and Deviance?
2. Discuss the Social and Cultural change?
3. Explain Social Conformity?
4. Classify the different types of Economic systems?
5. Discuss how Riots are different from the Mob?

Q2) Discuss the concept of globalization and explain how it impacts the economy of a country? (3+7=10 Marks) (CLO 3)

Q3) Interaction is a key component of society. Explain dissociative social processes with their characteristics in relation to business. (5+5=10 Marks) (CLO 1)

Q4) Illustrate the Reformatory social movements. Here you are required to mention and explain at least 5 examples of the above-mentioned movement with reference to Pakistani society. (5+5=10 Marks) (CLO 2)

Q5) Discussed mixed Economic system. How political system of a country is related with economic stability. (5+5=10Marks) (CLO 3)

- B) Prepare balance sheet as of December 31, 2022.
 C) Prepare the necessary year end closing entries.

Q.3

CLO 3 (Marks 10)

At August 31, the balance of the cash account as per ledger of Hubbard Transport was \$14,249. The bank statement at August 31 showed a balance of \$17,955. You are to prepare the bank reconciliation for Hubbard Transport using the following information:

1. Outstanding checks: no. 729, \$1,253; no. 747, \$245; no. 752, \$781.
2. Check no. 742 (for repairs) was written for \$398 but erroneously recorded in Hubbard's records as \$839.
3. Deposits in transit, \$2,254.
4. Note collected by the bank and credited to Hubbard's account, \$4,800.
5. NSF check of C. Craig, one of Hubbard's customers, \$1,525.
6. Bank service charge for August, \$35.

17489

- Required
- A) Prepare a bank reconciliation at August 31.
 B) Prepare the entry or entries necessary to correct Hubbard's records as of August 31.

Q. 4

CLO 3

(Marks 10)

Ferrell Company prepared the following partially completed aging of receivable schedule as of the end of December 31, 2022:

Customer	Balance	Not past due	Days past due				
			1-30	31-60	61-90	91-120	Over 120
Name	Accounts receivable						
Corel Company	\$70,000						
Muller Company	34,000						
Pixel Company	11,500						
Nikon Company	30,000						
Canon Company	66,000						
Harley Company	50,000						
Cisco Company	15,100						

The following customers were unintentionally omitted from the aging schedule:

Customer name	Due date	Accounts receivable	Number of Days past due
Corel Company	20-June-22	\$70,000	
Muller Company	17-July-22	34,000	
Pixel Company	05-Sept-22	11,500	
Nikon Company	11-Oct-22	30,000	
Canon Company	05-Nov-22	66,000	
Harley Company	09-Dec-22	50,000	
Cisco Company	14-Jan-23	15,100	

Age Class	Percentage uncollectible	Estimated Uncollectible
Not past due	1%	
1-30	5%	
31-60	11%	
61-90	20%	
91-120	35%	
Over 120	48%	

Required

- A) Determine the number of days past due for each of the preceding accounts.
- B) Complete the aging of the receivable schedule.
- C) Estimate the amount of doubtful accounts, based on aging of accounts receivable schedule.
- D) Assume that the allowance for doubtful accounts has a credit balance of \$8,000 before adjustment on December 31, 2022. Journalize the entry.
- E) Allied Company was confirmed to be out of business and the amount due \$6,000 were not to be received. Journalize the entry.
- F) Allied Company paid \$4,000 which was already written off. Make the journal entry.

GOOD LUCK!



Bahria University
Islamabad Campus
Mid Term Examination (Spring 2023)
Business Studies Department

Instructor Name: Qazi Subhan, Ayesha Kiyani, Ayesha Mustafa, Saima Ashraf, Khalil
Program: BBA(4)-2 Course: Macroeconomics

Date: 15/04/23

Time Allowed: 1.5 hours

Max Marks: 25

Session: I

CLO 1 (C2)	Understand the Basic concepts of macroeconomics
CLO 2 (C2)	Understanding the relationship between key economic indicators
CLO 3 (C2)	Understand how demand management impacts the economy.

Instructions: 1. Attempt all questions.

Question 1: a) Calculate the real GDP growth rate of the following economy in which people consume only 2 things, fish and fries and comment on how productivity has changes over the three periods. (5) CLO 1

Year	Price of Fish	Quantity of Fish	Price of Fries	Quantity of Fries
2006	\$7	400	\$8	225
2007	8	550	7	250
2008	9	900	6	275

$$= 111.9 = 112 = 1.1$$

$$\times 58.5 = 0.58$$

b) Calculate the inflation rates using the GDP deflator method. (2.5) CLO 1

c) Break down the GDP identity into its components and discuss each in detail focusing on factors that affect them. (2.5) CLO 1

Question 2: a) Explain the concept of the expenditure multiplier, why it is beneficial to have a larger multiplier and what factor determines the size of the multiplier. (3) CLO 1

b) If the government wants to increase economic output (GDP) by Rs. 200 million and the marginal propensity to consume of the country is 0.8, calculate how much additional government spending is required to achieve the target? (2) CLO 1

Question 3: Classify the different types of monetary policy tools and explain how they can be used to increase money supply. (5) CLO 3

Question 4: By using the AS AD model predict the response of the economic output, price levels and unemployment of country to oil shocks. (5) CLO 2



Bahria University
Islamabad Campus
Final Term Examination (Spring 2023)
Business Studies Department
Class: BBA-2(A,B,C,D,E,F,G)

Date: 07-07-2023

Time: Session II

Teacher Name: Tanveer Taj

Course: Principles of Accounting

Time Allowed: 2 hours

Max Marks: 40

CLO 1 (C3)	Explain the complete accounting cycle and demonstrate how it is used to record and report common business transaction.
CLO 2 (C3)	Recognize and prepare commonly used financial statements, their components and how information from business transactions flows into these statements.
CLO 3 (C3)	Describe the accounting and reporting of cash, cash equivalents and receivables.

Instructions:

All questions are compulsory. There are total 04 questions.

Student's Name: Hammad ul Haq, Enroll No: 01-111222-049

Q.1

CLO 1 (Marks 8)

Omega Company adjusts its accounts at the end of each month. The following information has been assembled in order to prepare the required adjusting entries at December 31:

1. A one-year bank loan of \$720,000 at an annual interest rate of 12% had been obtained on December 1.
2. The company's pays all employees up-to-date each Friday. Since December 31 fell on Tuesday, there was a liability to employees at December 31 for two day's pay amounting to \$6,800.
3. On December 1 rent on the office building had been paid for four months. The monthly rent is \$6,000.
4. Income tax accrued and not paid amounted \$4,500.
5. Depreciation of office equipment is based on a lifetime of six years. The cost of office equipment account is \$9,360.
6. Revenue of \$9,800 was earned during the month for clients who had paid in advance.
7. Services performed during the month but not yet billed or recorded amounted to \$4,600.
8. Office supplies used during the month amounted to \$500.

Required

Prepare the adjusting entries for the month of December.

Q.2

CLO 2 (Marks 12)

The accountant for Rose's Emporium Company prepared the following adjusted trial balance at December 31, 2022. The company closes its accounts at the end of each calendar year.

	Debit	Credit
Cash	\$ 5,700	
Accounts Receivable	6,900	
Unexpired Insurance	1,800	
Office Equipment	18,000	
Accumulated Depreciation-Equipment		\$ 300
Unearned Consulting Fees		3,300
Income Tax Payable		2,500
Capital Stock		15,600
Retained Earnings, January 1, 2022		0
Dividends	3,300	
Consulting Fees Earned		29,200
Salaries Expense	7,700	
Insurance Expense	300	
Income Tax Expense	2,500	
Depreciation Expense	300	
Utilities Expense	1,700	
Rent Expense	2,100	
Supplies Expense	600	
	<u>\$50,900</u>	<u>\$50,900</u>

Required

A) Prepare an income statement and statement of retained earnings for the year ended December 31, 2022.



BAHRIA UNIVERSITY, ISLAMABAD CAMPUS

Department of Business Studies

Mid-Term Examination (Spring 2023)

Paper Type: Subjective

Class: BBA

Course: Introduction to Sociology

Date: 14-4-2023 - Session 1

Course Code: HSS-402

Max Marks: 25

Time Allowed: 90 Minutes

Total Page: 1

Teacher Names: Ms. Beenish Ambreen, Ms. Amna Afzal, Ms. Adeela Iftekhar, Mr. Obaid

Instructions:

- i. All questions are compulsory
- ii. There are total Three questions
- iii. Incorporate Relevant Examples in each question

Student's Name: Hammad-ul-Horain

Enroll No: 01-11222-049



Question # 1. CLO: 03

(10 Marks)

How conflict and functionalist perspective describe role of business of any given society? Student can choose any type of business organization of their interest and to provide a detailed analysis?

Question # 2. CLO: 01

(10 Marks)

Discuss characteristics of culture in detail? Also discuss if ethnocentrism is essential then how it can be hinder in the process of change in society?

Question # 3. CLO: 02

(5 Marks)

Read the passage carefully and give the answer of following question.

Ahmed lives in a joint family system; his mother and paternal aunts look after all the household chores together. Ahmed celebrates different events with all his cousins collectively. They all love their grandfather and grandmother and give them respect. Ahmad's three uncles run their own businesses whereas one uncle is a lawyer. Ahmed's father also wants him to involve in business but Ahmed is very much impressed by his uncle (lawyer) as he likes this field. Sometimes he visits his uncle's office and observes his dealings with clients. In future he aims to have a degree of Bar-at-Law from England like Quaid-e-Azam and wishes to work for the rights of marginalized people.

1. Name individual's group identity and type of groups presented in each case. Give logical Reasons for the selected groups

BEST OF LUCK ☺