



Bahria University, Islamabad Campus
Department of Management Studies
Midterm Examination- (Fall Semester 2023)

Class/Section: BS (SCM)-4

Paper Type: Descriptive

Subject: HRM Date: 11-11-2023

Session: I

Name of Faculty: Dr. Muhammad ARIF Max Marks: 25

Time Allowed: 1.5 hrs. Class: BS (SCM)- A&B

INSTRUCTIONS

- I. Write name and enrollment numbers on top of the question paper.
 - II. The paper is closed book.
 - III. The students are not allowed any helping material (books, tables, formulas, etc.).
 - IV. Use blue, black or blue-black ink only. Do NOT use lead pencil especially.
-

CLO1	To provide basic knowledge and understanding about HR systems and strategic HRM.
CLO2	To deliver moderate level knowledge and understanding of the key HR tools of recruitment and selection, performance management, compensation, training and development, and employee involvement and communication.
CLO3	To introduce the concepts of various additional HR areas, such as talent management, OD and change, HR Metrics, HRIS, employee relations.

(8)

Q. 1 What is a high-performance work system? Provide several specific examples of the typical components in a high-performance work system?

(8)

Q. 2 How can Employers themselves against negligent hiring claims?

(9)

Q.3 Suppose you have joined a commercial bank as a HR manager, how you would guide someone to write job descriptions and job specifications for a bank manager position?



Bahria University
Islamabad Campus

Final Term Examination (Fall 2023)
Management Studies Department

Instructor Name: Dr. Salman Hanif

Program: BS (SCM)-4A
Economy
Management

Course: Intro to Blue
and Green Supply Chain

Date: 17-01-2024

Time Allowed: 105 Minutes

Max Marks: 28

Session: I

Name: _____ Enrollment No. _____ Section: _____

Ser	CLO	Domain	Taxonomy level	PLO
1.	Understand the basic concepts and terminologies of green supply chain management	Cognitive	2	2
2.	EVALUATE and ANALYZE the basic strategies and techniques related to green supply chain management	Cognitive	4, 5	2
3.	APPLY different concepts, strategies and techniques related to the green supply chain management faced in various situations in industry	Cognitive	6	5

Instructions:

- i. Part-1 (Q.No.1) of the question paper contains twelve MCQs. You are required to attempt this part on the question paper and return the same within initial 15 minutes of the exam.
- ii. Part-2 contains three questions (Q. No. 2, 3 and 4). You are required to attempt the Part-2 on the answer sheet and return the question paper, along with the answer sheet.

 **Part 2**

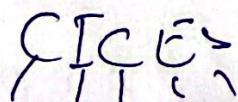
Q.2 How does the strategic integration of reverse logistics functions within a supply chain impact environmental sustainability, operational efficiency, and long-term financial viability for a company? Support your answer with relevant examples. (08 Marks) (PLO1, C1)

Q3. A) What defines the blue economy, and what are its key contributions?

B) Briefly explain the challenges and opportunities associated with the blue economy.
(04+04 Marks) (PLO2, C2)

Q.4 Read the case study about Circular Economy at Google and answer the questions at the end. (12 Marks) (PLO3, C3)

Google, which began as a search engine company for the Internet founded in 1996 by Larry Page and Sergey Brin, is major multinational company specializing in broader Internet services and products. Online search, advertising, cloud computing, software, and hardware are some of the innovations. Google has also been an









Bahria University

Islamabad Campus

Mid Term Examination (FALL 2023)

Management Studies Department

Instructor Name: Asima Saleem

Program: BS (SCM)-4 (A) Morning

Course: Finance of Supply Chain Managers

Date: 16-11-2023

Time Allowed: 1 hour 30 minutes

Max Marks: 25

Session: I

Instructions: 1. Attempt all questions.

2. Your answer should focus on Quality not Quantity

3. Provide real life examples to explain the core concepts

CLO1	Develop the conceptual understanding of supply chain operations and financial management. Distinguish financial flow systems from production and information flows.
CLO2	Comparison of company supply chain at industry levels from finance-oriented perspective.
CLO3	Describe the implication of financial information for management of Supply chain operations at firm level and industry level.

Question 1 (CLO 1) (Marks 1+1+1+2=5)

Apply your knowledge of Time Value of Money and solve the following numerical

- i. At the end of five years, how much is an initial \$500 deposit followed by five year-end, annual \$100 payments worth, assuming a compound annual interest rate of (i) 10 percent?
- ii. Suppose you were to receive \$1,000 at the end of 10 years. If your opportunity rate is 10 percent, what is the present value of this amount if interest is compounded (a) Annually?
- iii. At the end of three years, how much is an initial \$100 deposit worth, assuming a quarterly
- iv. Your late Uncle Vern's will entitle you to receive \$1,000 at the end of every other year for the next two decades. The first cash flow is two years from now. At a 10 percent compound annual interest rate, what is the present value of this unusual cash-flow pattern?

Question 2 (CLO 3) (Marks 4*3=12)

Supply chain models are applied to analyze the current situations as well as guide businesses to supply chain decisions for improvements and future resolutions.

Walmart Inc (Walmart) is a retailer that operates grocery stores, supermarkets, hypermarkets, department and discount stores, and neighborhood markets. The company performs detailed operations. Wal-Mart utilizes a sophisticated algorithm to calculate their forecasts that allows the company to forecast the exact quantities of each item to be delivered while taking into account each store's current inventory. This is also possible because of Wal-Mart's computerized inventory structure that uses the Point of Sales (POS) system. This not only tracks all the company's inventory and stock at retail stores and distribution centers, it also monitors when products are sold and is able to predict the future quantities needed. It is this production scheduling and the ability

to monitor inventory so closely that allowed Wal-Mart to accurately predict where, when and how much of a product will be needed and in turn develop a distribution network that works hand in hand with these needs. This reduces their costs by reducing leftover inventory and optimizing the transportation of their products by delivering only exactly what is needed. Super retailer Wal-Mart has spent considerable resources to ascertain how best to minimize transportation costs. Efforts such as owning their own fleet, standardizing processes, and capitalizing on information technology have resulted in transportation costs that are 3% of total costs versus the industry average of 5%. By analyzing how to cut costs in all aspects of their transportation, Wal-Mart was able to pass these savings onto consumers and support their 'always low prices' strategy. The suppliers in this case will be the companies who are selling their product through wal-mart retailers that are: Grand ocean star (Supplier of sea food it takes 5 to 10 days after order), Procter & Gamble Co (it takes lead time range of 8.5 to 14.0 days to deliver the food product), Nestle, Gillette, Hewlett-Packard, Johnson & Johnson, Kimberly-Clark, Kraft Foods Nestlé Purina Pet Care and Unilever There are three parts contribute to make which include product design, production scheduling and facility management.

Wal-Mart exemplifies how the construction of a product affects transportation costs. Wal-Mart recently asked its 60,000 suppliers worldwide that by 2008 they decrease the amount of overall packaging they use by 5%. Wal-Mart believes this packaging proposal will save the company \$3.4 billion. When Wal-Mart previously did this in 2005 with the packaging of its private clothing label, Kids Collection, the company saved \$3.5 million in one year. By reducing the amount of packaging, Wal-Mart is not only cutting costs, but they are reducing the weight and volume of their products. This increases the ability of their trucks to carry more per truckload, possibly even making less runs in a given day. Wal-Mart's packaging decisions illustrate the direct impacts supply chain decisions and transportation can have on each other.

Wal-Mart had just over 40 distribution centers located around the United States. Stocked in these centers were over 80,000 items. 50% to 65% of Wal-Mart's competitors directly supplied the inventory to their retailers from their warehouses, in comparison to Wal-Mart's 85%. Wal-Mart replenished their stores on average within two days compared to the five days their competitors took. The shipping costs were approximately 2% less of total cost than competitors (Chandran, 2003). Wal-Mart has a private fleet of their own truck drivers and by somewhat integrating backward in their supply chain, they have needed to become efficient in documenting and tracking their products. What makes Wal-Mart's distribution process so efficient is that they use a logistics technique known as "cross-docking". It breaks down the distribution of the products into five simple stages. The unique aspect of Wal-Mart's system is that their drivers deliver the trucks to their distribution centers at specific times and set intervals. Their entire distribution system is a consistent flow of goods adjusted to the individual needs of each retail store. Wal-Mart's delivery system works so well because it is developed in accordance with the demands of each store and the communication between each point allows the process to be effective.

Walmart's No Receipt policy applies to items returned in a store only. You have the option of a cash refund (for purchases under \$25), a Gift Card for the amount of the purchase (for purchases over \$25), a credit to your credit card or an even exchange for the product. We can make up to three No Receipt returns within a 45 day period.

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Required

Read the case study carefully and answer the following questions

- i. Identify and describe the elements of Supply chain model applied by the company.
 - ii. Draw the flow sheet to elaborate the supply chain process flow in supply value chain Model.
 - iii. Briefly discuss the case study content in context of Supply chain model

Question 3

(CLO 2)

(Marks 2+2=4)

Financial analysis will not only help the Company to understand its financial condition, but also help to determine its creditworthiness, profitability and ability to generate wealth. It will provide you with a more in-depth look at how well it operates internally.

BALANCE SHEET		INCOME STATEMENT	
Cash	\$ 400	Net sales (all credit)	\$12,680
Accounts receivable	1,300	Cost of goods sold	8,930
Inventories	<u>2,100</u>	Gross profit	<u>\$ 3,750</u>
Current assets	<u>\$3,800</u>	Selling, general, and administration expenses	2,230
Net fixed assets	<u>3,320</u>	Interest expense	<u>460</u>
Total assets	<u><u>\$7,120</u></u>	Profit before taxes	\$ 1,060
		Taxes	<u>390</u>
Accounts payable	\$ 320	Profit after taxes	<u><u>\$ 670</u></u>
Accruals	260		
Short-term loans	<u>1,100</u>		
Current liabilities	<u>\$1,680</u>		
Long-term debt	2,000		
Net worth	<u>3,440</u>		
Total liabilities and net worth	<u><u>\$7,120</u></u>		

Required

- i. Consider the given Income Statement and analyze it vertically.
 - ii. On the basis of this information, compute (a) the current ratio, (b) the net profit margin
(c) the average collection period.

Question 4

(CLO 2)

(Marks 2+2=4)

The National Logistics Corporation is a Pakistani logistics company. Through logistics and an effective Supply Chain Management practices, they will strive to achieve higher levels of success and leadership in the industry. Company has earned the net profit of Rs 150,000 for the year 2020. The dividends paid to shareholders are Rs 50,000. The net increase in the Retained earnings will be: \$100,000

Required

- i. What is the difference between sources of funds and uses of funds
 - ii. Recognize the Statement of retained earnings and identify the sources and uses of funds.

GOOD LUCK



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

Instructor Name: Mehnaz Khan

Program: BS(SCM)-4 (A)

Course: Inventory and Warehouse Management

Date: 13th November 2023

Time Allowed: 1.5 hours

Max Marks: 25

Session: 1

CLO1	Academic Knowledge Sharing with Students through Course Books
CLO2	Short Literature Reviews to research in depth about industrial problems
CLO3	Combining Academic & Practical Industrial knowledge through Project Presentation in groups
CLO4	Research to gather industry related information critically analyze it with academic papers
CLO5	Grab on subject area through academic & practical study and presenting the knowledge to other

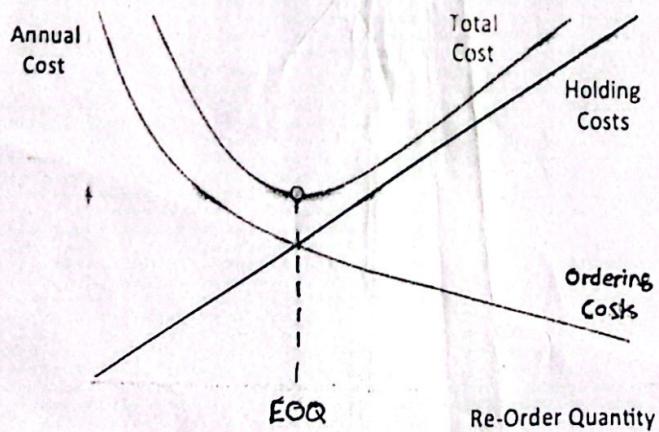
Instructions: 1. Attempt all questions.

Question 1 (CLO 1)

(10 marks)

Vostick Filter Company is a distributor of air filters to retail stores. It buys its filters from several manufacturers. Filters are ordered in lot sizes of 1,000, and each order costs \$40 to place. Demand from retail stores is 20,000 filters annually, and carrying cost is \$0.10 a filter per year.

- What is the optimal order quantity with respect to so many lot sizes (that is, what multiple of 1,000 units should be ordered)?
- How many orders need to be placed annually
- What are the optimal days between orders
- What would be the optimal order quantity if ordering costs were reduced to \$10 per order?
- Explain the following graph:



Question 2 (CLO 1)

(10 marks)

- a. Describe and explain the reasons for holding buffer stock.
- b. ABC & sons. sells stationery and textbooks. Mr. Khan, the owner started the store as small shop and managed it along with his sons. Mr. Khan knew exactly where every single inventory item is placed and relied on his memory. The store has now expanded considerably and his sons are thinking of switching to a **Fixed locator system or Random locator system** for inventory. You have been invited as a consultant to discuss the pros and cons of both systems and advise them accordingly.
 1. Explain what both systems are and how they differ.
 2. Analyze the pros and cons of both systems (discuss the benefits and problems with both systems)
 3. Advise Mr. Khan as to which system will better suit his needs and justify your recommendation.

Question 3 (CLO 5)

(5 marks)

Shaheen enterprises makes pipes for the oil industry. Production takes place in Punjab, whereas Finance and Marketing departments are in the head office in Karachi. The CEO has called a meeting to discuss **increasing inventory costs** which have reduced the company's profit.

- The Finance manager blames the Marketing manager for increasing inventory costs. Discuss why you think the marketing manager could be responsible for increased costs.
- The marketing manager, on the other hand, blames the operations manager for increased inventory costs. Discuss why you think the operations manager could be responsible for increased costs.



Bahria University
Islamabad Campus
Midterm Examination (Fall -2022)
Department of Management Sciences

Instructor Name: Mr. Ahmed Hassan
Program: BS SCM

Date: 24th November , 2022
Max Marks: 25

Course: IT in Supply Chain Management

Time Allowed: 1.5 Hrs
Time: (Session- II)

Instructions:

- 1- All questions are compulsory.
- 2- All questions carry equal marks

Question-1

How do the location affect the performance of a firm such as Metro Cash & Carry? What factors should Metro cash & carry take into account when making this decision?

Question-2

Agility is truly end to end supply chain provider in Pakistan. Agility has strong presence in all airports and ports of Pakistan. How agility could utilize information (in context of drivers) to increase responsiveness?

Question-3

In this new era of globalization; companies are facing the issue of uncertain demand. The uncertain demand results in disturbance of whole supply chain? What are the possible reasons for such uncertainty? Justify with relevant local examples?

Keep Calm and Enjoy Paper ☺



Bahria University, Islamabad Campus

Department of Management Studies

Final Examination

Class BS SCM

(Semester Fall 2022)

Paper Type: Subjective

Course: Macroeconomics

Date: 28-01-23

Course Code:

Session: II

Teacher Name: Dr. Farah Waheed

Max Marks: 40

Time Allowed: 2 hours

Total Pages: 1

Student's Name: _____ Enroll No: _____

**Q1 a) In the Solow model, how does the saving rate affect the steady-state level of income? How does it affect the steady-state rate of growth? (10) CLO2 & CLO3
b) Why might an economic policymaker choose the Golden Rule level of capital?**

Q2 a) How an increase in tax affect output? Show graphically and derive the tax multiplier.

b) Derive and explain LM curve. Why LM curve is positively sloped? (15) CLO2

Q3 a) What are the net capital outflow and the trade balance? Explain how they are related. (7.5) CLO2 & CLO3

b) If a small open economy cuts defense spending, what happens to saving, investment, the trade balance, and the exchange rate?

Q4. Calculate Laspeyres and Paasche price index (7.5) CLO3

Commodity	Prices		Quantities	
	2020	2021	2020	2021
Chicken	10	20	5	2
Beef	15	25	4	8
Mutton	40	60	2	6
Fish	25	40	3	4

GOOD LUCK



Instructor Name: Dr. Salman Hanif

Program: BS (SCM)

Course: Into to Blue Economy
and Green Supply Chain Management

Date: 12-11-2023

Time Allowed: 80 Minutes

Max Marks: 17

Session: I

Name: _____ Enrollment No. _____ Section: _____

Ser	CLO	Domain	Taxonomy level	PLO
1.	Understand the basic concepts and terminologies of green supply chain management	Cognitive	2	2
2.	EVALUATE and ANALYZE the basic strategies and techniques related to green supply chain management	Cognitive	4, 5	2
3.	APPLY different concepts, strategies and techniques related to the green supply chain management faced in various situations in industry	Cognitive	6	5

Instructions:

- i. Part-1 (Q.No.1) of the question paper contains eight MCQs. You are required to attempt this part on the question paper and return the same within initial 10 minutes of the exam.
- ii. Part-2 contains three questions (Q. No. 2 to Q. 4). You are required to attempt the Part-2 on the answer sheet and return the question paper, along with the answer sheet.

Part 2

Q.2 What challenges and opportunities do businesses face when transitioning from traditional linear supply chains to circular supply chain models, and how can they overcome these challenges to achieve sustainability and economic benefits? (4.5 Marks) (PLO1, C1)

Q.3. In the context of green supply chain management, how can companies strike a balance between leveraging enablers and addressing barriers to ensure long-term sustainability and competitiveness? Provide a strategic framework that illustrate successful approaches in managing this balance. (4.5 Marks) (PLO2, C2)



Bahria University
Islamabad Campus

Mid Term Examination (Fall 2023)
Management Studies Department

Instructor Name: Dr. Salman Hanif

Program: BS (SCM)

Course: Into to Blue Economy
and Green Supply Chain Management

Date: 12-11-2023

Time Allowed: 80 Minutes

Max Marks: 17

Session: I

Name: _____ Enrollment No. _____ Section: _____

Ser	CLO	Domain	Taxonomy level	PLO
1.	Understand the basic concepts and terminologies of green supply chain management	Cognitive	2	2
2	EVALUATE and ANALYZE the basic strategies and techniques related to green supply chain management	Cognitive	4, 5	2
3.	APPLY different concepts, strategies and techniques related to the green supply chain management faced in various situations in industry	Cognitive	6	5

Instructions:

- i. Part-1 (Q.No.1) of the question paper contains eight MCQs. You are required to attempt this part on the question paper and return the same within initial 10 minutes of the exam.
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Part 2

Q.2 What challenges and opportunities do businesses face when transitioning from traditional linear supply chains to circular supply chain models, and how can they overcome these challenges to achieve sustainability and economic benefits? (4.5 Marks) (PLO1, C1)

Q.3. In the context of green supply chain management, how can companies strike a balance between leveraging enablers and addressing barriers to ensure long-term sustainability and competitiveness? Provide a strategic framework that illustrate successful approaches in managing this balance. (4.5 Marks) (PLO2, C2)



Bahria University : Islamabad Campus
Mid Term Examination (Spring 2024)
Business Studies Department

Instructor Name: Sajid Hussain Chaudhry
Program: BS SCM 5-A Course: Career Exploring (MGT-311)

Date: 16 Apr 24

Time Allowed: 90 Min

Max Marks: 25

Session: I

CLO 1 (C1)	Understand thoroughly the self-knowledge through various self - assessment tools
CLO 2 (C2)	Understand the world of work/ environments to match own personality with a particular work domain/ profession

Instructions: 1. Attempt all questions.

Question 1: Explain Frank Parson's Theory about Career Exploring. Name three domains of Information Processing Pyramid? (C1) Marks: 06

Question 2: Define following Career Development Terms?

- a. Position (C1) Marks: 02
- b. Job

Question 3: What are Career Anchors? Explain attributes of persons with following two Career Anchors?

- a. Technical/ Functional Competence (C2) Marks: 06
- b. General Managerial Competence

Question 4: Draw CASVE cycle diagram and explain Five steps involved in CASVE cycle of problem solving?

(C2) Marks: 06

Question 5: Define Five steps approach to take measured risks in career management?

(C1) Mark: 05

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Bahria University, Islamabad Campus

Department of Business Studies

Mid Term Examination

Class and Section: BS SCM 3A

Semester: Spring 2023

Course Title:	Business Mathematics II/ Numeracy Skills	Date:	11/04/2023
Course Code:	QTM-120	Session:	I
Faculty's Name:	Dr. Sarah E.	Max Marks:	25
Time Allowed:	1hour 30 Minutes	Total Pages:	2

INSTRUCTIONS:

- I. All questions are compulsory. Assigned total marks are mentioned in start of each question.
- II. The paper is closed book.
- III. The use of any helping material (books, tables, formulas, etc.) is not allowed.
- IV. The use of calculators is allowed.
- V. Students are allowed to take away the question Paper after exam.

CLO 1 (C2)	Understand the Basic concepts of functions
CLO 2 (C2)	Understanding the quantitative techniques to solve-evaluate information and solve problems
CLO 3 (C2)	Understand and apply basic mathematics skills to solve real world business applications.
CLO 4 (C2)	To determine level of cost that cannot be exceeded to maintain required profit and a competitive selling price

Student's Name: _____ Enroll No: _____
(USE CAPITAL LETTERS)

Q#1. [CLO-1] (2+2)

- a. Determine whether there are any discontinuities, if so, where do they occur, where $f(x) = \begin{cases} 2/x^2 & ; x \neq 6 \\ 10 & ; x = 6 \end{cases}$

b. Evaluate the limit $\lim_{x \rightarrow -1} \frac{3x^2 - 9x - 12}{3x + 3}$.

Q#2 [CLO-1] (3+3)

Find dy/dx where

a. $y = \frac{e^{x^2+1}}{\ln(x+1)}$

b. $y = f(u) = \sqrt{u^2 - 1}$ and $u = g(x) = x^4$

Q#3 [CLO- 2] (2+2+2)

An object is dropped from a cliff which is 1296 feet above the ground. The height of the object is described as a function of time t . The function is

$$h = f(t) = -16t^2 + 1296$$

where h equals the height in feet and t equals time measured in seconds from the time object is dropped.

- i. How far will the object drop in 2 seconds?
- ii. What is the instantaneous velocity of the object at $t = 2$?
- iii. What is the velocity of the object at the instant it hits the ground?

Q#4 [CLO 3] (4)

A flu epidemic is spreading through a large Midwestern state. Based upon similar epidemics occurred in past the epidemiologists have formulated a mathematical function which estimates the number of persons afflicted by flu. The function is

$$n = f(t) = -0.3t^3 + 10t^2 + 300t + 250$$

Where n equals the numer of persons afflicted, t equals time measured in days since initial detection by officials, and relevant restricted domain is $0 \leq t \leq 30$.

Using the estimating function determine point of inflection (if any exist).

Also interpret their meaning in application.

Q#5 [CLO 4] (3+2)

The demand for the product of a firm varies with the price that the firm charges for the product. The firm estimates that the annual revenue function R (stated in \$ 1000's) is a function of the price p (stated in \$). Specifically

$$R = f(p) = -50p^2 + 500p$$

- i. Determine the price which should be charged in order to maximize total revenue.
- ii. What is the maximum value of annual total function?

Best of Luck



Bahria University, Islamabad Campus
Department of Management Studies
Mid Term Examination Assessment
Class BS (SCM) 2-A
Semester Fall 2022

Course: Introduction to Supply Chain Management Date: 22/11/22
Course Code: SCM 101 Session:
Teacher Name: Mr. Farman Ullah Khan
Max Marks: 25
Time Allowed: 1.5 Hours Total Pages: 02

INSTRUCTIONS:

- i. All questions are compulsory.
 - ii. Use blue ink pen only.
 - iii. Understanding the question is a part of question.
-

Question – 1:

- a. Differentiate between demand uncertainty and implied demand uncertainty with example? (Marks 2)
- b. Discuss the importance of expanding the scope of strategic fit across the supply chain. (Marks 4)
- c. What are the competitive and supply chain strategies? Elucidate with examples (Marks 3)

CLO-2

Question – 2:

- a. Briefly discuss the drivers of Supply chain performance? (Marks 5)
- b. Determine the ROA, ROE, PM and APT of each company from the following financial statements for Walmart Stores Inc. and Macy's Inc.? Assume tax rate 0.35. (Marks 2)
- c. Compare the metrics for each company and interpret which company perform better? (Marks 1)

Financial Data for Walmart Stores Inc. and Macy's Inc		
Year ended January 31, 2013 (\$ millions)	Walmart	Macy's
Net operating revenues	469,162	27,686
Cost of goods sold	<u>352,488</u>	<u>16,538</u>
Gross profit	116,674	11,148
Selling, general, and administrative expense	<u>88,873</u>	<u>8,482</u>
Operating income	27,801	2,661
Interest expense	2,251	425
Other income (loss)—net	187	(134)
Income before income taxes	25,737	2,102

Good Luck!!!

Income taxes	7,981	767
Net income	<u>17,756</u>	<u>1,198</u>
Assets		
Cash and cash equivalents	7,781	1,836
Net receivables	6,768	371
Inventories	<u>43,803</u>	<u>5,308</u>
Total current assets	59,940	7,876
Property, plant, and equipment	116,681	8,196
Goodwill	20,497	3,743
Other assets	<u>5,987</u>	<u>615</u>
Total assets	203,105	20,991
Liabilities and Stockholder Equity		
Accounts payable	59,099	4,951
Short-term debt	<u>12,719</u>	<u>124</u>
Total current liability	71,818	5,075
Long-term debt	<u>41,417</u>	<u>6,806</u>
Total liabilities	<u>126,243</u>	<u>14,940</u>
Stockholder equity	76,343	6,051

CLO-2

Question – 3:

- What are the key factors affecting distribution network design? Describe with help of graphs. (Marks 3)
- Describe the four key factors influencing network design decisions? (Marks 3)
- How do import duties and exchange rates affect the location decision in a supply chain? (Marks 2)

CLO-1,3

End

Good Luck!!!



Bahria University
MID Islamabad Campus
Term Examination (Fall 2022)
Management Studies Department

Instructor Name: Saifullah

Program: BS SCM

Date: 23/11/2022

Max Marks: 25

Course: Introduction to Sociology

Time Allowed: 90 mins

Session: ii

- Instructions:**
1. Attempt all questions.
 2. Your answer should focus on Quality not Quantity
 3. Provide real life examples to explain the core concepts

Student's Name: _____

Enroll No: _____

Question # 1. CLO: 03 (10 Marks)

Define Culture (give at least two definitions). Also discuss and relate components of culture with regard to your own cultures?

Question # 2. CLO: 04 (10Marks)

Society refers to people who interact in a defined territory and share similar culture. Discuss history of a society and how different social institutions shape the structure of a society?

Question # 3. CLO: 02 (05 Marks)

Differentiate between Ethnocentrism and Xenocentrism. In what ways, a society is ethnocentric or Xenocentric? Explain your answer with relevant examples.



Bahria University, Islamabad Campus

Department of Business Studies

Final Term Examination

Class and Section: BS SCM 3A

Semester: Spring 2023

Good Luck!

Course Title:	Business Mathematics II/ Numeracy Skills	Date:	05/07/2023
Course Code:	QTM-120	Session:	II
Faculty's Name:	Dr. Sarah E.	Max Marks:	40
Time Allowed:	2 hours	Total Pages:	2

INSTRUCTIONS:

- I. All questions are compulsory. Assigned total marks are mentioned in start of each question.
- II. The use of any helping material (books, tables, formulas, etc.) is not allowed.
- III. The use of calculators is allowed.
- IV. Students are allowed to take away the question Paper after exam.

CLO 1	Understand the basic concept of functions
CLO 2	Understand and apply basic mathematics skills to solve-evaluate information and solve real world problems
CLO 3	To determine the level of cost that can not be exceeded to maintain required profit and a competitive price

Student's Name: _____ Enroll No: _____
(USE CAPITAL LETTERS)

Q#1. [CLO-1] (2+2+4)

- a. Find the indicated limit $\lim_{x \rightarrow -\infty} \frac{100-3x^3}{-x^3}$.
- b. Find the indicated limit $\lim_{x \rightarrow 9} \frac{81-x^2}{9+x}$.
- c. Find the value of k if the given function is continuous at $x = -2$, where
$$f(x) = \begin{cases} kx^2 - 2 & ; x < -2 \\ x^2 + 3x & ; x > -2 \end{cases}$$

Q#2 [CLO-2] (3+3)

- a. The value of a particular asset is estimated by the function

$$V = 240,000 e^{-0.04t}$$

where V is the value of the asset and t is the age of the asset, measured in years.

- i. What is the value of asset expected to equal when 4 years old?
- ii. Determine the general expression for the instantaneous rate of change in the value of asset?
- iii. What is the rate of change expected to equal when the asset is 10 years old.
- b. An object is dropped from a bridge which is 576 feet high. The height $h(t)$ of the object can be determined as a function of time.

$$h(t) = 576 - 16t^2,$$

- i. Determine the average rate of change in height between $t = 0$ and $t = 2$.
- ii. How long does it take for the ball to hit the ground.

Q#3 [CLO 2] (5+5)

- a. $f(x) = \frac{3x^2}{x^2 - 1}$
- Determine whether f is increasing or decreasing at $x = 1$
 - Determine the value of x for which f is an increasing, decreasing, neither increasing nor decreasing.
- b. A cable TV antenna company has determined that its profitability depends upon the monthly fee it charges its customers. The annual profit P as a function of monthly rental fee r is
- $$P(r) = -50,000r^2 + 2,750,000r - 50,00,000$$
- Determine the monthly rental fee r which lead to maximum profit
 - What is the expected maximum profit.
-

Q#4 [CLO 3] (4+4)

- a. Using the method of partial fractions, determine the indefinite integral
- $$I = \int \frac{5x+8}{x^2+4x+4} dx.$$
- b. Approximate the integral by any Numerical technique, where

$$I = \int_0^4 \frac{x}{x^3+2} dx.$$

Q#5 [CLO 3] (4+4)

- a. A hospital blood bank conducts an annual blood drive to replenish its blood inventory. The hospital estimates that blood will be donated at a rate of $D(t)$ pints per day, where $D(t) = 300e^{-0.1t}$, where t is length of blood drive in days. If the goal for the blood drive is 2000 pint, after how many days will the hospital reach its goal.
- b. The marginal revenue function for a firm's product is

$$MR = -0.04x + 10$$

Where x is the number of units sold. What is the additional revenue if sales increase from 100 units to 200 units.

Best of Luck



Bahria University, Islamabad Campus
Department of Management Studies
Mid-term Examination
Class BS SCM 2A
(Semester Fall 2022)
Paper Type: Subjective

Course: Macroeconomics

Date: 25-11-22

Course Code:

Time: SESSION

Teacher Name: Dr. Farah Waheed

Max Marks: 25

Time Allowed: 90 Minutes

Total Pages: 1

INSTRUCTIONS:

- i. All questions are compulsory.
- ii. There are total 4 questions

Student's Name: _____ Enroll No: _____

Q1. Consider an economy that produces and consumes bread and automobiles. In the following Table are data for two different years. (7.5 marks) CLO2

Goods	Year 2015		Year 2020	
	Quantity	Price	Quantity	Price
Automobiles	100	50,000	1,20,000	60,000
Bread	5,00,000	10	4,00,000	20

a) Using the year 2015 as the base year, compute the following statistics for each year: nominal GDP, real GDP, the GDP deflator.

Q2. Give any three possible reasons the real wage may remain above the level that equilibrates labor supply and labor demand. (7.5 marks) CLO1

Q3. Explain how a competitive, profit-maximizing firm decides how much of each factor of production to demand. (5 marks) CLO1

Q4. If inflation rises from 6 to 8 percent, what happens to real and nominal interest rates according to the Fisher effect? (5 marks) CLO2

GOOD LUCK



Bahria University, Islamabad Campus
Department of Management Sciences
Mid Term Examination (Fall-2022)
Class: SCM-2A

Course: Oral Communication
Course Code: ENG 132
Teacher Names: Amina Siddique
Time Allowed: 1.5 hours

Date: 26-11-2022
Session: II
Max Marks: 25

Student Name:

Enrollment Number:

Instructions:

1. All questions are compulsory
 2. Only relevant answers will be entertained
-

Question.no.1. Tracy works as a communication officer in Sigma Solutions. She has been asked to train her newly hired subordinates about company decorum and operations. Plan an effective 'communication processes for Tracy ensuring successful dissemination of information to her trainees. Also talk about the process of 'Encoding' and its impacts on the overall communication process. (CLO 3) (10 marks)

Question.2. Models of communication ensure 'surveillance of environment' and highlights importance of 'audience analysis'. Elaborate with the help of an example

(7 marks) (CLO 2)

Question.3. For a public speaker, it is suggested to ensure cultural balance with the audience in order to avoid failed communication. In view of the information provided please explain the following:

(8 marks) (CLO 2, 3)

3 (a). How culture and cultural differences affect the communication process?

3(b). What is the difference between High context and Low context cultures?

ALL THE BEST



Bahria University
Islamabad Campus
Final-Term Examination (Fall 2022)
Management Studies Department

Instructor Name: Hina Najam

Program: BS (SCM)

Date: 23/01/2023

Max Marks: 40

Course: Financial Accounting

Time Allowed: 2 hours

Session: 2A

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

Question No.1

(10 marks) (CLO-2)

The stockholders' equity section of Elmwood Corporation's balance sheet appears as follows.

Stockholders' Equity:

8% preferred stock, \$100 par value,

200,000 shares authorized \$12,000,000

Common stock, \$5 par value, 5,000,000 shares authorized 14,000,000

Additional paid-in capital:

Preferred stock \$ 360,000

Common stock 30,800,000 31,160,000

Retained earnings 3,680,000

Total stockholders' equity \$60,840,000

Instructions

On the basis of this information, answer the following questions and show any necessary supporting computations.

- a. How many shares of preferred stock have been issued?
- b. What is the total annual dividend requirement on the outstanding preferred stock?
- c. How many shares of common stock have been issued?
- d. What was the average price per share received by the corporation for its common stock?
- e. What is the total amount of legal capital?
- f. What is the total paid-in capital?
- g. What is the book value per share of common stock? (Assume no dividends in arrears and round to the nearest cent.)

Question No. 2

(10 marks) (CLO-1)

The bank statement of Parkview company shows a balance of cash on deposit at July 31 of \$5,000.17. Assume that on July 31, Parkview's ledger shows a bank balance of \$4,262.83. The employee preparing the bank reconciliation has identified the following reconciling items.

1. A deposit of \$410.90 made after banking hours on July 31 does not appear in the bank statement.
2. Four checks issued in July have not yet cleared the bank. These checks are as follows.

Check no.	Date	Amount
881	July 1	\$100.00
888	July 14	10.25
890	July 16	402.50
891	July 17	205.00

3. Two credit memoranda were included in the bank statement carrying the value of \$500.00 on July 22 while \$24.74 on July 31.
4. Three debit memoranda accompanied the bank statement carrying the value of \$5.00 on July 22, \$50.25 on July 30 and \$12 on July 31.
5. Check no. 893 was issued to the telephone company in the amount of \$85 but was erroneously recorded in the cash payments journal as \$58. The check, in payment of telephone expense, was paid by the bank and correctly listed at \$85 in the bank statement. In Parkview's ledger, the Cash account is overstated by \$27 because of this error ($\$85 - \$58 = \$27$).

Requirement: Prepare the bank reconciliation of the Parkview Company for July 31 2021.

Question No. 3 (10 marks) (CLO-2)

Listed are selected items from the financial statements of Bachman Manufacturing Company for the year ended December 31, 2018.

Note payable to Williamsburg Bank (due January 30, 2019) <i>No</i>	\$ 99,000
Income taxes payable <i>Cu</i>	63,000
Loss contingency relating to lawsuit	175,000
Accounts payable and accrued expenses <i>Cu</i>	174,675
Mortgage note payable <i>No</i>	240,864
Bonds payable <i>N.</i>	2,200,000
Premium on bonds payable <i>No</i>	10,400
Accrued bond interest payable <i>Cu</i>	110,000
Pension expense	61,400
Unearned revenue <i>Cu</i>	25,300

Other Information

- The note payable owed to Williamsburg Bank is due January 30, 2019. Bachman has arranged with this bank to renew the note for an additional two years.
- Bachman has been sued for \$175,000 by someone claiming the company's pumps are excessively noisy. It is reasonably possible, but not probable, that a loss has been sustained.
- The mortgage note is payable at \$8,000 per month over the next three years. During the next 12 months, the principal amount of this note will be reduced to \$169,994.
- The bonds payable mature in seven months. A sinking fund has been accumulated to repay the full maturity of this bond issue.

Requirements

- Using this information, prepare the current liabilities and long-term liabilities sections of Bachman's classified balance sheet at December 31, 2018.
- Explain briefly how the information in each of the four numbered paragraphs affected your presentation of the company's liabilities.

Question No. 4 (05 marks) (CLO-3)

What are the bonds? Write a note on the different types of bonds.

Question No. 5 (05 marks) (CLO-1)

The net income of the John company is \$595,000. \$6 dividend is paid on 12000 shares of the preferred stock. The earnings per share is 2.615. Find out the number of common shares outstanding?

..Good Luck..



University

Bahria University

Islamabad Campus

Final Term Examination (Fall -2022)

Department of Management Sciences

Instructor Name: Mr. Ahmed Hassan

Program: BS SCM

Course: IT in Supply Chain Management

Date: 27th January, 2023

Time Allowed: 2 Hrs

Max Marks: 40

Time: (Session- II)

Instructions:

- 1- All questions are compulsory.
- 2- All questions carry equal marks

Question-1

How the role of Information Technology enhanced the Supply Chain Performance of Service Industry. Justify with relevant local examples? (CLO-2)

Question-2

Seller and buyers in a supply chain may collaborate with each other to achieve the common goal. There are number of CPFR Scenarios. Some of them are following: (CLO-1)

CPFR Scenario	Where Applied in Supply Chain	Industries where Applied
Retail Event Collaboration	?	?
DC Replenishment Collaboration	?	?
Store Replenishment Collaboration	?	?
Collaborative Assortment Planning	?	?

Your task is to identify areas of supply chain and industries?

Question-3

In this new era of globalization; companies are facing the issue of uncertain demand. The uncertain demand results in disturbance of whole supply chain? What are the possible reasons for such uncertainty? (CLO-1)

Question-4

What are the different alternative software sources available in corporate organization? Your task is to compare their advantages and disadvantages? (CLO-3)

All the Best!



Bahria University
Islamabad Campus
Final Term Examination (Fall 2022)
Management Studies Department

Instructor Name: Saifullah

Program: BS SCM

Date: 26/1/2023

Max Marks: 40

Course: Introduction to Sociology

Time Allowed: 120 mins

Session: 2

- Instructions:**
1. Attempt all questions.
 2. Your answer should focus on Quality not Quantity
 3. Provide real life examples to explain the core concepts

Student's Name: _____

Enroll No: _____

(15 Marks)

Question # 1. **CLO: 03**

A social institution is an interrelated system of social roles and social norms, discuss importance of social institution in an individual life, also discuss the functions of social institutions?

Question # 2. **CLO: 04** **(15 Marks)**

What is your understanding about social movement, how a social movement arise and fall explain with an example also discuss four types of social movements?

Question # 3. **CLO: 02** **(10 Marks)**

Differentiate between deviance and crime (draw proper chart of comparison), also explain eight types of crimes?



Bahria University
Islamabad Campus
Final Term Examination (Fall -2022)
Department of Management Sciences

Instructor Name: Mr. Farman Ullah Khan

Program: BS (SCM)-2 (A) Morning

Course: Introduction to SCM

Date: /1/2023

Time Allowed: 2 hours

Max Marks: 40

Times: (Session-)

Instructions: Attempt all questions

Question 1: a) What is Positive Externality? (With Examples) (Marks 1+1)

b) Elaborate the framework for network design decisions in supply chain and making a diagram is necessary? (Marks 8)

Question 2: Logistic company wants to know their net present value of cash flow of three projects i.e., project A, B and C if they invest their initial investment in the projects i.e., 10000 for the 4 years of time, and they are expecting the rate of return is 12 % yearly.

Year	Project A cash flow	Project B cash flow	Project C cash flow
1.	6000	2000	3000
2.	5000	3000	2000
3.	3500	5000	9000
4.	2000	5650	1000

Required: Calculate Net present Value (NPV) for each project from the above available information and compare which project is profitable? (Marks 10)

Question 3:

a) Describe the impact of offshoring on the key elements of total cost? (Marks 5)

b) Define Flexibility, Chaining, and Containment and differentiate between dedicated network and chained network with two short chains with the help of diagram? (Marks 5)

Question 4: a) Shed light on the steps in decision tree analysis? (Marks 6)

b) What is the bullwhip effect, and how does it relate to lack of coordination in a supply chain? (Marks 4)



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

Instructor Name: Maliha Baig
Program: BS SCM 3A

Course: Managerial Accounting

Date: 10-07-2023

Time Allowed: 2 hours

Max Marks: 40

Session: II

CLO 1 (C2)	Understand the Basic concepts of Managerial Accounting
CLO 2 (C2)	Understanding the relationship between key accounting factors
CLO 3 (C2)	Understand how demand management impacts reporting

Instructions: 1. Attempt all questions in equal time.

(Time allotted for Q.1 is 25 Min)

(7+7 Marks)

Q.1. (CLO 1,3) Home Decor Services is a non-profit organization devoted to providing essential services to seniors who live in their own homes within the Southernland County area. Three services are provided for seniors—home Decor, designing on Wheels, and flower arrangement;

	Total	Decor	Designing	Flower arrangement
Revenues	\$900,000	\$ 260,000	\$400,000	\$240,000
Variable expenses	490,000	120,000	210,000	160,000
Contribution margin	410,000	140,000	190,000	80,000
Fixed expenses				
Depreciation	68,000	8,000	40,000	20,000
Liability insurance	42,000	20,000	7,000	15,000
Program administrators' salaries	115,000	40,000	38,000	37,000
General administrative overhead*	180,000	52,000	80,000	48,000
Fixed expenses	405,000	120,000	165,000	120,000
Operating income/(loss)	\$ 5,000	\$ 20,000	\$ 25,000	\$ (40,000)

*Allocated on the basis of program revenues

The head administrator of Southernland County Services, Laura, is concerned about the organization's finances and considers the operating income of \$5,000 last year to be razor-thin.

After seeing the above report, Laura asked for more information about the financial advisability of discontinuing the housekeeping program. The depreciation in the flower arrangement category is for a small van that is used to carry the arrangement personnel and their equipment from job to job. If the program were discontinued, the van would be donated to a charitable organization. Depreciation charges assume zero salvage value. None of the general administrative overhead

would be avoided if the flower arrangement program were dropped, but the liability insurance and the salary of the program administrator would be avoided.

Required:

1. Should the flower arrangement program be discontinued? Explain. Show computations to support your answer.
2. Recast the above data in a format that would be more useful to management in assessing the long-run financial viability of the various services.

(Time allotted for Q.2 is 25 Min) CLO (3)

(4 Marks each)

Q.2 Hickory Company manufactures two products—14,000 units of Product Y and 6,000 units of Product Z. The company uses a plantwide overhead rate based on direct labour-hours. It is considering implementing an activity-based costing (ABC) system that allocates all of its manufacturing overhead to four cost pools. The following additional information is available for the company as a whole and for Products Y and Z:

	Activity* Measure	Estimated Overhead Cost	Expected Activity	Products Activity	
Machining	Machine Hours	\$200,000	10,000 MH	7000	3000
Machine Set up	No. of setups	\$100,000	200 Setups	50	150
Product design	No. of Products	\$84,000	2 Products	1	1
General Factory	Direct Labour hours	\$300,000	12,000 DLHS	8000	4000

Required:

Using the ABC system, how much total manufacturing overhead cost would be assigned to Product Y?

1. Using the ABC system, how much total manufacturing overhead cost would be assigned to Product Z?
2. Using the plantwide overhead rate, what percentage of the total overhead cost is allocated to Product Y?
3. Using the ABC system, what percentage of the Machining costs is assigned to Product Z? Are these percentages similar to those obtained in requirements above? Why?
4. Using the plantwide overhead rate, how much manufacturing overhead cost is allocated to Product Y? How much is allocated to Product Z?

(Time allotted for Q.3 is 25 Min) CLO (2, 3)

(5+5 marks)

Q.3. Smooth Valley plans on starting laundry services. The following data were collected during the year.

	Downtown Customers	Suburban Customers
Revenue	\$120	\$150
Variable	20	40
Fixed	300	700

Required:

1. Calculate the number of breakeven hours for downtown and suburban clients.
 2. Assume the CEO decides to focus on downtown clients with business operational at 120hr/month, calculate margin of safety in dollars and as percentage of sales.
- b). Tannerbaum company invests in sporting gear with contribution income statement bearing elements; Sales \$100,000, variable expenses \$42,000, Fixed expenses \$45,000.

Required: Compute the following:

1. Degree of operating leverage, estimate impact on operating income with 4% increase in sales
2. Prepare a brief explanation of the possible causes of each variance.
3. Verify above (2) by constructing new contribution format income statement with 7% increased sales.
4. Assuming 15% tax rate, compute after tax income of \$18,000 if bathtubs purchased are 148.

Sales



Instructor Name: Asima Saleem
Program: BS (SCM) (5A) Morning
Date: 21-4-2024
Max Marks: 25

Course: Supply Network Planning and Design
Time Allowed: 90 Minutes
Time: Session: I

CLO 1	Develop the conceptual understanding of fundamental concepts and principles of supply chain network planning and design.
CLO 2	Analyze supply chain networks at industry levels to identify inefficiencies, bottlenecks, and opportunities for improvement.
CLO 3	Describe the implication of best practices and industry standards in supply chain network planning and design.

Instructions: 1. Attempt all questions.

2. Focus on quality of content rather than quantity

Question 1 (CLO1) (2+3=5 marks)

- I. Good supply network leads to the achievement of a variety of supply chain objectives ranging from low cost to high responsiveness. Describe the factors that affect the design of supply network.
- II. Elaborate and Exemplify the distinct distribution network designs with discussion of strengths in context of supply chain performance.
 - i. Manufacturer storage with direct shipping
 - ii. Distributor storage with last mile delivery
 - iii. Manufacturer / distributor storage with customer pickup

Question 2 (CLO3) (3+2 = 5 marks)

- I. Dynamic and changing market conditions make it necessary for companies to act in networks to maintain their competitive position. For this reason, they have to adapt their own actions to those of other market players. It requires a SMART attitude for designing their supply networks. As a Supply chain expert, discuss the characteristics of SMART Supply chain Network.
- II. Illustrate the importance of blockchain technology in supply chains and supply networks.

(3+3=6 marks)

Question 3 (CLO 2)

- I. Differentiate between Strategic, Tactical and Operational Decisions in Multi-national Supply networks.
- II. "Best Way Cement is among the leading cement manufacturers". As a Network Management expert, suggest company the importance of Actor-Resource-Activity (ARA) Model for analyzing its operations.

(Marks 2+3=5)

Question 4 (CLO 1)

- I. A Cash and Carry Management is planning to find a new facility for expansion of a super store. As a network planning expert, suggest levels of facility planning to the management. The Center of Gravity technique is a quantitative method for locating a facility through a coordinate system.

Destination	x	y	Weekly Quantity
L1	7	6	700
L2	5	3	500
L3	8	5	800
L4	6	4	600
L5	2	2	200
Total	28	21	2,800

Required: Recognize the information and determine the central location for a new facility.

Question 5 (CLO 3)

(Marks 3+1=4)

- I. There are three capacity planning strategies to assist you in meeting the demand, covering your resource needs, and boosting the productivity of your team members. Compare the three capacity planning strategies and discuss their importance for increasing the operations productivity.
- II. Interwood Furnishers are renowned furniture manufacturers, produces 10,000 units of wood for its furniture retailers. When reviewing its capacity, it learns that it can produce up to 50,000 units. Calculate the capacity utilization by the firm.