QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH

MID-SEMESTER EXAMINATION OF SECOND SEMESTER - FIRST YEAR (2" SEMESTER) 2022, 21-BATCH, B.S.(A)

SUBJECT: LINEAR ALGEBRA

Dated: 23.11.2022

Maximum Marks: 20 Time Allowed: 01 Hour,

NOTE: ATTEMPT ANY TWO (02) QUESTIONS, ALL QUESTIONS CARRY EQUAL MARKS.

Q.No		ao	Taxonomy Level	PLO:	Marks
01(a)	A matrix has 15 elements. How many matrices of different order	2	C1	3	04
	can be formed from these elements also write them				
01(b)	Why we use identity matrix? also find the rank of the matrix by using determinate method. $ A = \begin{bmatrix} 1 & 2 & 3 \\ 2 & 4 & 7 \\ 3 & 6 & 10 \end{bmatrix} $	3	CZ	3	06
	[3 6 10]				
02(a)	Formulate the system of linear equations from chemical equation. $C_1H_1+O_2\to CO_2+H_2O$	2	Cı	3	08
02(ъ)	Is it possible to find the multiplication of any two matrices?	3	C2	3	02
03	The traffic flow at chakra market Nawab shah is shown below: 45 45 45 45 45 45 45 45 50 The traffic flow at chakra market Nawab shah is shown below: 45 45 45 45 45 45 45 45 45 4	2	Cı	3	10

MID-SEMESTER EXAMINATION OF SECOND SEMESTER - FIRST YEAR (200 SEMESTER) 2022, 21-BATCH, B.S.(A)

SUBJECT: COMMUNICATION & PRESENTATION SKILLS

Dated: 22.11.2022 Maximum Marks: 20 Time Allowed: 01 Hour.

NOTE: ATTEMPT ANY TWO (02) QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS.

Q. No.	QUESTIONS	PLO	C1.0	Taxonomy Level	Marks
\0 1-∷	Discuss communication barriers and its factors in detail.	PLO-2	CLO-I	C2	10
02	Define communication and six components of communication.	PLO-2	CLO-I	СІ	10
103	(a) Describe the need and scope of communication in organization.	PLO-2	CLO-I	CZ	10
_	(b) Discuss origin and development of communication.			C2	

The Ena

QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH MID-SEMESTER EXAMINATION OF SECOND SEMESTER - FIRST YEAR (200 SEMESTER) 2022, 21 BATCH, BLS (AI)

SUBJECT DIGITAL LOGIC DESIGN

Dated: 25,11,2022

Maximum Marks: 20 Time Allowed: 01 Hour

NOTE: ATTEMPT ANY TWO (02) QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS.

Q No.		Questio			CLOs	Taxonomy Level	PLO ₃	Mark							
01. a)	Explain why binary circuits and systems	number s	ystem is s	uited for digital	CLO I	(2	2	(0)							
	Identify first 20 num		sc-4 numb	er system.	CLO I	C2		(0.							
c)	Solve by considering perform the following	g the nur	nber syste	m in Q 01. b).	CLO 1	C3	1 .	(0-							
	i) 33+12 = ?		11 - 7				1								
02. a)	Solve by converting decimal to binary.	the follow	ing numbe	ers from	CLO I	C3	2	(0:							
	i) 455 ii) 220	iii) 65.75	iv) 101	v) 1050	1		1								
b)	Solve by converting decimal.	the follow	ring binary	numbers to	CLO I	С3	1	(0:							
	i) 10111000	ii) 10110		iii) 11101.111	1 1		1								
	iv) 101010111	v) 10010	0100		1 1		-								
03. a)	Describe how neg digital computer? E				CLO I	C2	2	2	2	2	2	2	2	2	(00
b)	Solve the following complement method numbers.			-		C3		(0-							
	i) 1101 - 0101		ii) 10110 ·	01111			-	-							
	iii) 10101011 - 001	11011	iv) 10101	10 - 1110001			4								

Good Luck &

MID-SEMESTER EXAMINATION OF SECOND SEMESTER - FIRST YEAR (200 SEMESTER) 2022, 21 BATCH, B.S. (A) SUBJECT: OBJECT ORIENTED PROGRAMMING

Dated: 21.11.2022 Maximum Marks: 20 Time Allowed: 01 Hour,

NOTE: ATTEMPT ANY TWO (02) QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS.

Q. N	٥.	Question	CLOs	Tazonomy Level	PLOS	Mark
Q.01	(a)	Briefly explain how Java language supports polymorphism.	1	C2	2	05
· ·	(b)	Discuss how the code written in Java language is portable and secure.	1	C2	2	05
Q. 02		Write a Java program to print the area of two rectangles having sides (6,8) and (5,9) respectively by creating a class named 'Rectangle' with a method named 'Area' which returns the area. The length and breadth are passed as parameters to its constructor.		СЗ	3	10
Q-03-	(a)	Give an example to declare and display a multidimensional array with the help of a Java programme.		C2	2	05
	(ь)	Write a Java code that creates an array to store marks of 10 students. The program should then display maximum, minimum and average marks of students.		C2	2	05

QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH MID-SEMESTER EXAMINATION OF SECOND SEMESTER - FIRST YEAR (200 SEMESTER) 2022, 21-BATCH.

B.S (AI)

SUBJECT: PAKISTAN STUDIES

Dated: 24.11,2022 Maximum Marks: 20 Time Allowed: 01 Hour.

NOTE: ATTEMPT ANY TWO (02) QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS.

Q. No.		QUESTION	clos	Taxonomy Level	PLOs	Mark
Q. 01	Discuss t	ne causes of War of Independence 1857.	1	C2	8	05
Q. 02	Role of Si	r Syed Ahmed Khan in Aligarh Movement.	1	C2	8	05
Q. 03	Write sho (i) (ii) (iii)	Partition of Bengal Lucknow Pact 1916 Nehru Report	1	C1	8	05

Good Luck

QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH SUB-COLOR SECOND STASTER - FRST YEAR 3021 OF 21 BATCH B.S.M.

SUBJECT, OBJECT ORIENTED PROGRAMMING

Dated: 10.01.2023

Matter Marks: 60

Time Allowed: 3 Hours.

NOTE: ATTEMPT ALL QUESTIONS, ALL QUESTIONS CARRY EQUAL MARKS.

Q. No		QUESTION	c10s	Taxonomy Level	PLOS	Mark
2.01	(a)	Demonstrate the dynamic method dispatch in Java. Create a class named A as the super class. Create two sub classes of class A named as B and C. All three classes should have a method named as callime(). Use a fourth class to instantiate all three classes and dynamically call the method callime().	2	a	3	06
	(b)	Write a Java program that takes two numbers from user each one by using different approach for taking input. The program should then display the sum of both numbers.	2	a	3	06
Q. 02	(a)	Write a Java code that creates two different kinds of exceptions in a single try block and catch them with multiple catch clauses.	2	æ	3	06
4 -	(ъ)	Differentiate between method overloading and method overriding in Java.	2	C4	3	06
Q. 03	(2)	Write a Java program that creates a text file named "quest.txt", write or append the string "Welcome to Al Department" in that file and read the contents of the file and show on the console screen.		a	4	06
-	(b)	Write a Java program that creates multiple threads.	3	æ	4	06
Q. 04	(2)	Explain why the abstract classes cannot be instantiated. Create an abstract class named as Shape with a method named size(). Then create another class to extend the class Shape. Use a third class to call the method size().	1	æ	3	06
	(b)	Explain all three uses of the final keyword in Java.	2	CZ	3	06
Q. 05	(a)	Write a Java application with functionality and user- interface of the notepad as shown in the figure. Open Save	3	a	1	06
1-1	1	Print Est		- 5499		100
_	(ъ)	Demonstrate with the help of a program that how an interface can use another interface.	3	G	4	06

QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH FINAL SEMESTER REGULAR EXAMMATION OF SECOND SEMESTER - FIRST YEAR 2023 OF 21 BATCH B S (T I CS I A)

SUBJECT: COMMUNICATION & PRESENTATION SKILLS

Dated: 13.01.2023 Maximum Marks: 60 Time Allowed: 3 Hour

NOTE: ATTEMPT ALL QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS.

Q. No.	_	QUESTION	clos	Taxonomy Level	Mari
Q. 01	ŀ	What are the barriers to communication? Discuss in detail with suitable examples.	1	С3	12
Q. 02	ţ	Write the essential features of effective presentation.	1	C1	12
Q. 03	•	What is the importance of communication in professional life? Explain.	2	С3	12
Q. 04		"We communicate more through non-verbal communication". Elaborate the statement.	2	C1	12
Q. 05	Ш	Write short on any two of the following: 1 Interpersonal communication 2 Person to group communication 3 Mass communication	1	С3	12

Good Luck

QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAM

FRAL SEMESTER REGULAR EVANNATION OF SECOND SEMESTER - FREE YEAR 2021 OF 21 BATCH, B.S MA

SUBJECT LINEAR ALGEBRA

Dated, 17.01,2023

Maximum Marks, 60 Lims Allowed, 3 Hours

NOTE: ATTEMPT ALL QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS.

Q.No	Questions	cio	Tasunomy Level	PLD.	Mark
01(a)	Apply Kirchhoff's laws to find the current in each branch of the circuit shown in the following figure:	J	CI	2	Un
	$\begin{array}{c} \downarrow & \downarrow & \downarrow & \downarrow \\ \downarrow & \downarrow & \downarrow & \downarrow \\ \downarrow & \downarrow &$				
	= -m+ +T				
· -01(b)	Find the inverse of the matrix by elementary row operations $A = \begin{bmatrix} 1 & 0 & 3 \\ 2 & 4 & 1 \\ 1 & 3 & 0 \end{bmatrix}$	2	C2	2	04
·02(a)	Define linearly dependent and independent vectors, prove that the following system of vectors in $V_1(R)$ are linearly independent $v_1 = (1, 2, -3), v_2(1, -3, 2), v_3 = (2, -1, 5)$	2	CZ	2	06
-02(b)	Determine whether or not the given set of vectors is basis for R' $S = \{(2,4,-3),(0,1,1),(0,1,-1)\}$	2	C2	2	06
•03(a)	Without expanding prove that $A = \begin{bmatrix} x & a & a & a \\ a & x & a & a \\ a & a & x & a \end{bmatrix} = (x-a)^{1}(x+3a)$	2	C2	2	06
03(b)	Find the point of intersection of pair of lines L and M given by: L: through A (2, -1, 0) and parallel to b= [4, 3, -2]	2	C2	2	06
04(a)	Convert the equation of plane 2x-3y-2+7=0 (i) intercept form (ii) normal form.	2	C2	2	06
04(b)	Find the ratio in which the yz-plane divides the segment joining the points A(-2,4,7) and B(3,-5,8).	2	C2	2	06
os	Define Eigen values and Eigen vectors, Find the eigen vector corresponding to each eigen value of the following matrix	2	C2	2	12
	$A = \begin{bmatrix} 1 & 4 \\ 2 & 3 \end{bmatrix}$				

QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH FINAL SEMESTER REGULAR EXAMINATION OF SECOND SEMESTER - FIRST YEAR, 2023 OF 21-BATCH, B.S.(AI)

SUBJECT: PAKISTAN STUDIES

Dated: 20.01.2023

Maximum Marks: 30 Time Allowed: 02 Hours.

NOTE: ATTEMPT ALL QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS.

Q. No.	QUESTION	aos	Taxonomy Level	PLOs	Marks
Q. 01	Describe the Geo-strategic Importance of Pakistan.	2	C2	8	10
Q. 02	What were the main reasons of separation of East Pakistan?	3	C1	8	10
Q. 03	Define the term "Constitution"? Discus the silent features of 1973 constitution.	3	C2	8	10

Good Luck