MID-SEMESTER EXAMINATION OF SECOND SEMESTER - FIRST YEAR (25) 2023, 22-BATCH, B.S (T)

SUBJECT: COMMUNICATION & PRESENTATION SKILLS

Dated: 05.09.2023

Maximum Marks: 20

Time Allowed: 01 Hour,

Q. Na.	QUESTION	aos	Tazonomy Level	PLOs	Marks
Q.01	"Effective Communication is crucial for all areas of life to maintain good relationship". Illustrate the above statement by giving the examples from our daily life.		C2	3	10
_	a) Define the process of communication. b) Explain how different factors affect the process of	1	C1	3	05
	communication?	1	C2	3	05

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

MID-SEMESTER EXAMINATION OF SECOND SEMESTER - FIRST YEAR (219) 2023, 22-BATCH, B.S (IT)

SUBJECT: DIGITAL LOGIC DESIGN SUBJECT: DIGITAL LOGIC DESIGN

Pated: 04.09.2023 Maximum Marks: 10 Time Allowed: 45 Minutes.

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

Q. No.	QUESTION	CLOs	Taxonomy Level	PLOs	Marks
Q. 01 (a)	Perform decimal subtraction using 9's complement 1. 25 - 19 2. 79 - 26	1	C1	1	02
(ъ)	Take 15's complement of 1. 546700 2. 123	1	cı	1	03
Q. 02	Write the truth table for the function 1. F=x+xy+y 2. F=xy'+x'y	2	C2	2	05

Good Luck

QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH MID-SEMESTER EXAMINATION OF SECOND SEMESTER - FIRST YEAR (2°C) 2023, 22-BATCH, B.S (CS / IT)

SUBJECT: CALCULUS & ANALYTICAL GEOMETRY

Dated: 06.09.2023

Maximum Marks; 20

Time Allowed: 01 Hour,

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

Q.1	No.	Question	αos	Taxonomy Level	PLOs	Marks
Q. 01	(a)	Define interval and types of intervals? Solve the following inequalities and show their solution on the real line and intervals. L. $2x-1 < x+3$ II. $ 2x-3 > 5$	1 1	а	2	05
	-	Define composite function and inverse of function? And given that $f(x) = 3x - 1$ and $g(x) = \frac{5x-1}{2}$ are two functions then show that $(f \circ g)^{-1} = g^{-1} \circ f^{-1}$.	1	сі	2	05
Q. 02	2	Discuss limit of function at finite point and Continuity of function at point "a"? And Find the values of "m" and "n" if $f(x)$ is continuous for all real numbers, $f(x) = \begin{cases} 2x - 1, & x < -3 \\ 4mx - 3n, & -3 \le x \le 2 \\ 3x, & x > 2 \end{cases}$	1	C6	2	10
	٨ı	nd draw the graph of function.				

The End



MID-SEMESTER EXAMINATION OF SECOND SEMESTER - FIRST YEAR 12" SEMESTER) 2023 22-BATCH, B.S. (T)

SUBJECT: BUSINESS ECONOMICS

Dated:	07.09	2023
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Maximum Marks: 20 Time Allowed: 01 Hour

Q. No.	QUESTION	CL Os	Taxon omy Level	PL	Mar ks
Q. 01	List the Factors of Production for the following products and services. 1. Mobile phone 2. Cupboard 3. Car 4. Fabric 5. House 6. Transportation services 7. Internet services 8. Electricity services 9. Medical services 10. Academic services	1	C1	1	10
Q. 02	Consider the following diagram.	1	C1	1	10
	1. Equilibrium price 2. Equilibrium quantity 3. Surplus at \$4.0 4. Surplus at \$4.5 5. Surplus at \$5.0 6. Surplus at \$5.5 7. Shortage at \$2.5 8. Shortage at \$2.0 9. Shortage at \$1.5 10. Shortage at \$1.0				





MID-SEMESTER EXAMINATION OF SECOND SEMESTER - FIRST YEAR (2") 2023, 22-BATCH, B.S (IT)

SUBJECT: PRINCIPLES OF ACCOUNTING

Dated: 12.09.2023 Maximum Marks: 20 Time Allowed: 01 Hour.

Q. No.	Question	æ	Taxonomy Level	PLO	Marks
Q. 01 (a)	Elaborate the term Accounting and role of accounting with the help of real life examples.	1	C1	1	05
	Journalize the transaction and develop trial balance by the help of T-ledger. 1. In 2021, Jan 1 Mr. Rana commenced his business with Rs. 40,0000 cash. 2. Jan 3, Deposit cash into bank Rs. 38,000. 3. Jan 5, Purchased goods on account from Imran of value 9,0000. 4. Jan 6, Sold goods to Babar on credit for Rs. 6,000. 5. Jan 8, Bought office supplies from Raffiq and company for cash of Rs. 2000. 6. Jan 10, Goods sold for cash of Rs. 2,0000		C2	2	05
	Discuss in detail different account types and their rules.	1	C1	1	05
Ь	Prepare the general journal and accounting equation 1. Mr. Raheel commences his business with cash Rs. 900,000. 2. Purchased building on cash Rs. 400,000. 3. Purchased merchandise on cash Rs. 120,000. 4. Purchased merchandise from Zamir & Co. for Rs. 112,000 on credit. 5. Sold merchandise at cost Rs. 26,500 on cash 6. Merchandise of Rs. 17,500 was sold for cash Rs. 20,000. 7. Part payment was made to Zamir & Co. Rs. 75,500.	s.		2	

MID-SEMESTER EXAMINATION OF SECOND SEMESTER - FIRST YEAR (2°9) 2023, 22-BATCH, B.S. (TT)

SUBJECT: OBJECT ORIENTED PROGRAMMING

Dated: 08,09,2023 Maximum Marks; 20 Time Allowed: 1 Hour,

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

Q.Ne.		QUESTION	ao:	Tasonomy Level	PLOs	Harks
Q.01	a)	Identify with reasons why Java is based on the	1	a	2	os
1		byte code? How the platform independency is		2	1	
		achieved in Java?			1	
	b)	Demonstrate a Java program that asks you to	3	а	4	05
	1	enter your age in years and convert it from	١	1	1	1
	1	years to months, days, hours, minutes and		1	1	1
1		seconds.	1			
Q.02	a)	Why type casting and conversion are used in	2	(2	3	05
1	1	Java? Explain the conditions when widening	3		1	1
		type casting takes place and when narrowing	3			1
		type casting takes place with suitable	•		1	1
		programming example.				
	b)	Demonstrate a Java program that asks you t	0 3	a	٦ ٠	0.5
		enter any numeric number and display either	r		1	1
		the number entered is even or odd. [Note: us	e		1	
		? operator].			1	

"THE END"

FINAL SEMESTER REGULAR EXAM OF SECOND SEMESTER - FIRST YEAR (700 SEM.) 2023 OF 22-BATCH, B.S (TT)

SUBJECT: OBJECT ORIENTED PROGRAMMING

Maximum Marks: 60 Dated: 23.11.2023

Time Allowed: 3 Hours.

Q.N		QUESTION	CLOs	Level		
Q. 01	(a)	we pass the variable length arguments to	C	3	4	06
	(ь)	using classes, methods, objects and considered using Scanner class. (i) Get the marks of 5 students in 5 subjects using Scanner class. (ii) Calculate the total and average marks of each student and the services on the screen.		3	3	06
Q. 02		Write a program that asks the user to enter a number of at least 3 digits length (i.e., 78965). The program should display the sum of even and odd digits present in a number. Input: Enter any number: 78965 Output: The sum of even digits is: 8 + 6 = 14 The sum of odd digits is: 7 + 9 + 5 = 21		2	2	12
Q. 03	(a)	Why Java does not support multiple inheritances? What is the alternative way to support multiple inheritances in Java? Explain with a programming example.	ļ .	2	2	06
	(b)	the second state and denotic	ı	4	3	06
Q. 04	(a)	Polymorphism is the key characteristic of the Object Oriented Programming. Describe how java implements run time polymorphism with a programming example.	C2	3	3	06
	(ъ)	Write a Java program that implements the following "IIAS-/relationship" where Student calss has an instance variable of typ Department class. Stadent Std Name Department	C	3	4	06
Q. 05	(a)	Differentiate between abstract class and interface. Is it necessar for a class to implement all the methods of the interface? If a then how?		2 3		3 0
	(b)	Write a Java program to create an abstract class Employee wastract methods calculateSalary() and displayInfo(). Cresubclasses Manager and Programmer that extend the Employelass and implement the respective methods to calculate salund display information for each role.	ate yee	C4 4		3 0

QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH FINAL SELESTER REGULAR EXAM OF SECOND SEMESTER - FIRST YEAR (2° SEM), 2023 OF 22-BATCH, B.S (TT/CS) SUBJECT: COMMUNICATION & PRESENTATION SKILLS

Dated: 13.11.2023

Maximum Marks: 60 Time Allowed: 03 Hour,

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

Q. Na	диватиом	CLOs	Taxonomy Level	PLOs	Marks
Q.01	Define four skills of communication. How can we make these skills effective?	2	C2	1	12
Q.02	Describe the key principles of good writing.	2	C2	1	12
Q.03	Define Written Communication. Describe the process of good writing.	2	C2	1	12
Q.04	a) What is CV? Write the format of CV.	3	C1	7	06
	b) Why CV is important to get a job?	3	C1	7	06
Q.05	a) Define letter and it's types.	3	C1	7	06
	b) Write a letter to your friend invite him/her for your brother's wedding ceremony.	ur :	з сз	7	06

Good Luck

FINAL SELESTER REGULAR EXAMENATION OF SECOND SEMESTER - FIRST YEAR 2023 OF 22-BATCH, BS (11)

SUBJECT: DIGITAL LOGIC DESIGN

Dated: 16.11.2023

Maximum Marks: 30 Time Allowed: 02 Hours.

Q. No.	QUESTION	αos	Tazonomy Level	PLOs	Marks
Q.01(a)	Convert decimal number 53.25 to Excess-3 code. Convert grey code 1010 to its equivalent binary.	1	2	1	04
(ъ)	Obtain 9's and 10's complement of the following decimal numbers 1. 13579 2. 09900 3. 00000 4. 10000	1	2	1	06
Q.02(a	Prove that (A+B)(A+C)=A+BC through truth table and make a circuit diagram.	2	3	2	05
(ъ)	A combinational logic circuit has 3 inputs and single output. The output of the circuit is "1" whenever two o more than two inputs are logical one's otherwise circuit produce an output "0". Write the sum of minterms and product of maxterms, Boolean expression by providing truth table.	t d	3	2	05
Q.03(a)	Using a Karnaugh map, simplify the following function. 1. F(ABCD) = ∑(0,2,3,6,7,8,10,11,12,15) 2. F(WXYZ) = ∑(7,13,14,15) 3. F(ABCD) = ∑(2,3,12,13,14,15)	g 2	3	2	06
(ъ)	What is combinational logic circuits? Briefly describ any two.	e 3	3	3	04



FNAL SPAESTER REGULAR EXAMINATION OF SECOND SEMESTER - FIRST YEAR, 2023 OF 22-BATCH B.S.IIII

SUBJECT: BUSINESS ECONOMICS

Dated: 20.11.2023

Maximum Marks: 60 Time Allowed: 3 Hours.

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

		TOURS CARRY EQUAL MARKS.				
Q.	No.	QUESTION	CL Os	Taxo nomy Level	PL Os	Mar ks
[Q. 0)1 (a	The price of a cup of coffee was reduced from \$5	2	3	2	06
		per unit to \$4 in order to attract more customers. It		1		
1		was observed that demand for the coffee				
1	1	subsequently increased from 100 to 110 units per				
}	1	day. Calculate the price elasticity of demand of the				
1	1	coffee0.45				
	10	A transport company charges \$5 per person as a	2	3	2	06
1		fare from city A to city B and the total number of				
į	١	passengers are 200 per day. If the transport				
١	١	company offers a discount of \$1 per person, the				
ļ	1	number of passengers increases from 200 to 300				
- !		per day. Compute the total revenue for both cases				
1	- [and help the transport company to make a better				
1	1	decision.	_			
Q. 0	12 (a	The people of city A are earning \$500 per month	2	3	2	06
	1	and their demand of product B is 5000 units per	- 1	- 1	1	- 1
1	1	month. Due to inflation, the income of the people	- 1		- 1	- 1
i	i	raised to \$600 per month and their demand for	- 1	- 1	- 1	
i	i	product B increased to 6000 units per month.		- 1	- 1	- 1
	1	Compute the price elasticity of demand of product	- 1			- 1
	İ	В.				\Box
	(b)	If the price of coffee rises from \$2 per cup to \$3 per	2	3	2	06
. 17		cup, the consumer's demand for tea increases from		.		- 1
		600 to 800 packs per day. Find out the cross price			-	
		elasticity of demand of tea for coffee. 0.5				
. 03	(a)	producer offers to sell 400 units of product B	3	6	3	06
!	V	then its price is \$10 per unit, while only 200 units		1		
- 1		re offered if the price reduces to \$5 per unit. Find	\perp			
				miles	æd.	••••

Continued

1117 - Ro-Co. 12-6: - 12-13: 4

	Г	the price ela	sticity of supply of	product B.				
	(b)	Aslam depo	sits \$3000 in State	Bank of Pakistan for	3	6	3	0
	1	5 year which	ch offers him an in	terest rate of 10%		l	1	
	1	What is the	amount he gets after	er 1 year, 2 years, 3		1	1	
	l	years, 4 yea	rs and 5 years?	W021	l	1	1	l
Q. 04	 		t ABC Inc. is consi	3	6	3	1.	
1,,,,				t Y and wants to				
1	1			ject. Both project X				
1	١			ects and cash flows				
1			projects for four year					
1		Year	Project A Cash Flows	Project B Cash Flows				
	l	1.	\$5000	\$1000 .				
	ı	2.	\$4000	\$3000				
	ı	3.	\$3000	\$4000				
	ı	4.	\$1000	\$6750				
1	l	The firm's o	cost of capital is 10	% for each project				
	1	1	-	ount is \$ 10,000.				
			e NPV of each proje at the firm should inv	ct and determine in A · 847 vest. B · 1306				
Q. 05	(a)			\$5000 on watching	3	6	3	00
		movies, \$10	,000 on paying tul	tion fees annually.				
		The business	smen invest \$200,00	0 for uplifting their				
		industries	per year. The g	overnment spends				
		\$100,000 on	safety and security	of people per year				
		and its net e	xport is \$50,000 per	year. Compute the				
		GDP of the c	ountry by using exp	enditure approach.				
	(b)	Compute the	unemployment rate	of a country based		6	3	0
1 1		on the follow	ing data:	*.				
1 1	- 1	1) 5 millio	on people are above	16 years and able				
	- 1	to work	£.	'1				
		2) 2 millio	n are children.					
		3) 1 millio	n people are in hosp	pitals and jails.				
		4) 1 millio	n people are retired	L.				
	- [5) 2 millio	n people are unemp	loyed.				



FINAL SEMESTER REGULAR EXAM OF SECOND SEMESTER - FIRST YEAR (2" SEM) 2023 OF 22-BATCH BIS (CS/IT)

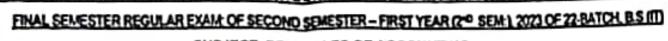
SUBJECT: CALCULUS & ANALYTICAL GEOMETRY

Dated: 10.11,2023

Maximum Marks: 60

Time Allowed: 03 Hour.

1				_			
	₫.No.*		Question	CLOs	Taxonomy Level	PLOS	Marks
Q	. 01	(3	Discuss Continuity of function and find "c" such that the function, $f(x) = \begin{cases} \frac{1-\sqrt{x}}{x-1}, & \text{if } 0 \le x < 1 \\ c, & \text{if } x = 1 \end{cases}$ is continuous for all $x \in [0,1]$.	02	C6	.3	06
	_	J.	Define Differentiation and find the derivative of the following functions by using definition of derivative, i. $f(x) = e^{-x}$ ii. $f(x) = 3x^2 - 5$	OZ	сі	3	06
Ę	0.0 V	2 (Find derivative of $f(x) = U(x) \cdot V(x)$ by Using First Principle Method?	02	а	3	06
	ረ	-10	Define Partial Differentiation and show that the function $f(x,y) = \ln(\sqrt{x^2 + y^2})$ satisfies Laplace's equation.	03	a	3	06
Ī	Q. 03			02	CS	3	12
Q	\04 _		State Mean value theorem and Roll's theorem? And find e (if possible) of the mean value theorem: $f(x) = x^3 - 5x^3 + 4x - 2 \text{ on } [1,3].$	03	æ	3	12
9	.05	(a)	Define Definite Integral and Indefinite Integral? and Evaluate (any two) the following functions. i. $\int \sqrt{\sin x} \cos x dx$ ii. $\int \frac{2x+5}{\sqrt{x^2+5x+7}} dx$ iii. $\int \tan^2 \theta . \sec^4 \theta d\theta$	03	a	3	06
	1	(ъ)	Find the parametric equations of the straight line through the points $P(1, -5, 1)$ and $Q(4, -5, 4)$	03	CI	3	06



SUBJECT: PRINCIPLES OF ACCOUNTING

Dated: 30.11,2023

Maximum Marks: 60 Time Allowed: 3 Hours.

g. Me.	QUESTION	œ	Level	r.o	Marks
Q. 01 (a)	Define the term Depreciation.	2	C2	2	04
(b)	A company purchased a building for 25,000 the estimated life of the building is 5 years. What will be depreciation of building if it has 50 salvage value.	2	CZ	2	08
Q. 02	 Prepare balance sheet from given transactions. Mr. Raheel commences his business with eash Rs. 900,000. Purchased building on eash Rs. 400,000. Purchased merchandise on eash Rs. 120,000. Purchased merchandise from Zamir & Co. for Rs. 112,000 on credit. Sold merchandise at cost Rs. 26,500 on eash Merchandise of Rs. 17,500 was sold for eash Rs. 20,000. Part payment was made to Zamir & Co. Rs. 75,500. Sold merchandise on credit to Asif Bhai for Rs. 47,500 at a profit of Rs. 7,000. Paid salaries to employees Rs. 11,800. Sold ¼ portion of building for eash Rs. 325,000 whose cost price was Rs. 100,000. Merchandise returned to Zamir & Co. Rs. 2,500 and paid to him eash Rs. 34,500. Received eash from Asif Bhai Rs. 25,000. 		СЗ	2	12
Q. 03	(a) Discuss in detail Inflation and its types.	1;	-	+	_
	(b) Prepare financial statement from given transactions. 1 Owner invested 500,000. 2 Purchase a plot for parking of 50,000, paid cash 23,000. 3 Collect account receivable 4500 4 Acquired equipment from the tower company for 7500 in cash. 5 Owner invested 400,000 6 Purchase a building of 60,000 paid 25,000 in cash.	,			
	.8 Paid 3000 for the salaries of workers.	2	CZ		<u> </u>
Q. 04	(a) Explain importance and types of trade.	2	CZ	_	1 0
	(b) Highlight the role of accounting in banking sector. (a) Elaborate your understanding regarding interest in accounting. Also	3	C3	1	3 0
Q. 05	(a) Elaborate your understanding regular by explain types of interest.	_			3 0