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

SUBJECT: PAKISTAN STUDIES

Dated: 14.10.2021	Maximum Marks: 10	Time Allowed: 45 Minutes
247	•	

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

Q. 01 Explain the role of Sir Sayed Ahmed Khan and services for Muslims in sub-continent.

Q. 02 Describe the partition of Q. 03 Who launched Khilafa

Describe the partition of Bengal 1905 and reasons for formation of AIML.

Who launched Khilafat Movement and why? How did Khilafat Movement end?

The End

QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH MID-SEMESTER EXAMINATION OF SECOND SEMESTER - FIRST YEAR (2° SEMESTER), 20 BATCH, B.E. (TC) SUBJECT: COMMUNICATION SKILLS

Dated: 11.10,2021 Maximum Marks: 10 Time Allowed: 45 Minutes,

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

Q.91 Is communication a basic need? If not, then how much important it is, and why do we need to communicate?

Q. 92 The process of communication is a cycle. Prove the statement by discussing all the steps involved.

Q. 03 "If there is no listening, there will be no speaking", discuss. Elaborate all the tips to improve the listening skills.

The End

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

MID-SEMESTER EXAMINATION OF SECOND SEMESTER - FIRST YEAR (PO SEMESTER) 20 BATO!

BE (SE IES ITC)

SUBJECT: LINEAR ALGEBRA & ANALYTICAL GEOMETRY

Date: 13 10 2021	Maximum Marks; 20	Time Allowed: 1 Hour,
NOTE: ATTEMPT ANY TWO (02) O		EQUAL MARKS.
NOTE: ATTEMPT ANY TWO (02) C	JESTIONS: PLE COMMENT	

Q.	QUESTIONS	PLO	Ç1.0	Taxonomy Level	Marks	-
No.	(a) Define the following Matrices	PLO-2	C1.O-1	· C2	-05	
01	•					
	GI Nilpotent Matrix					L
	(ii) Idempotent Matrix	١.				ı
	(iii) Involuntary Matrix	PLO-2	CLO-2	C3	05	
	(iv) Upper Triangular Matrix					Ĺ
	/					
	(b) Show that this is nilpotent Matrix					,
	1 -3 -4 -1 3 4 1 -3 -4				1	
	-1 3 4	1			- 1	•
	[1 -3 -4]					
					-01	
02	(a) Define Homogeneous and Non-Homogeneous	PLO-2	Cro-1	C2	05	
	System of Linear Equation					
		PLO-2	CLO-2	C2	05	
	(b) Solve the system by Gauss Elimination Method				-	
	$x_1 + 5x_2 + 2x_3 = 9$				1	
	$x_1 + x_2 + 7x_1 = 6$					
	$-3x_1+4x_2=-2$				1	
03	(a) Define the consistency criteria of Homogeneous and	PLO-2	CLO-I	C2	05	
")	Non-Homogeneous System of Linear Equations		٠. ا		İ	
		PLO-2	č1.0-1.	C3	05	
' :	(6) Find the rank of the given Matrix				•	
J			. •			
1	[2 1 3 5] 15 8 1 12			.		
	11 5 8 6					
	11 5 8 6 12 8 7 10		- 1			
- 1						

The End

4.260

ID. No/Seat No.



QUAID-E-AWAM UNIVERSITY OF ENGINEERING SCIENCE AND TECHNOLOGY, NAWABSHAII

MID SEMESTER EXAMINATION 2021 OF SECOND SEMESTER FIRST YEAR (20-BATCH) OF B.E. (TELECOMMUNICATION ENGINEERING)

Subject: BASIC ELECTRONINCS

Dated: 11-10-2021

Time Allowed: 1 Hour

Max: Marks: 20

NOTE: ATTEMPT ANY TWO QUESTIONS.

Q.No	1	CLO	Level	Marks
0110	Discuss Bohr's atomic model, energy band diagram, its importance and differentiate among atomic structure of semi-conductor, insulator and conductor.	01	C2	05
(B)	Examine forward and reverse biasing of diode and draw its	02	C4	05
02) (/)		01	C2	05
(B)	Determine the forward voltage and forward current for the diode in the diagram for each of the diode models (ideal, practical and complete). Also find the voltage across the limiting resistor in each case. Assume $t_1 = 20 \Omega$ at the determined value of forward current. Figure 10 V	02	C4	05
63 (A)	Determine the peak value of the output voltage of the following circuit. And what are the average value, PfV value, and rms value of the half-wave rectified voltage if V _{IN} is 100V?	02	C4	05
10	Differentiate between pn-junction and rener diode.	01	C2	05

MOSEMESTER EXAMINATION OF SECOND SENESTER - FEST YEAR (20 SEMESTER) 20 BATO (BE (TC)

SUBJECT: OBJECT ORIENTED PROGRAMMING

NOTE: ATTEMPT ANY TWO	0 (02) QUESTIONS. ALL QUESTIONS CARRY E	QUAL MARKS.
Dated; 15.10.2021	Maximum Marks: 20	Time Allowed: 1 Hour
	SOBJECT ONIENTED	

Q. Na.		Question		ดเอ	Taxonomy Level
) . 01		Do as directed: Differentiate between break statement and exit(0) function. Why the following declaration is not correct: int array[][] = {2,4,3,6,8,5,9,7}; Differentiate between the arrays and structures by Differentiate between the while and do-while loops	[04]	01	СІ
		f- Point out the errors and also re-write the corrected (version of the program: main() (int x = 4, y = 0, z; while(x >= 0) (if(x == y) break; case 1; cout<<"Nawabshah"; cout<<"x=, y="< <x<y; td="" y="=;" y<=""><td>[06]</td><td>01</td><td>CI</td></x<y;>	[06]	01	CI
Q. 02	*	Write a program that asks a user to enter 10 numbers into an array. Then ask a user to enter another number to search. If the number entered by the user is contained in an array, the program should display the message "Number found", otherwise display the message "Number not found".	[06]	01	C2
	PR	Provide suitable examples for 1-D array and structure declarations. How 1-D arrays and structures are accessed in the main program?	[04]	01	C2
Q. Ø	a)	Write a program that declares a structure called Student. The student structure contains the member elements such as name, roll number, percentage, and date of birth. Furthermore, declare nested structures for date of birth (dd, mm, yy) and name (P_name, M_name, L_name) elements. In the main program declare an array of structure that may store data for 50 students. Ask the user to enter student's data at run-time and then also display it on the screen.		01	C2
	b)	How 2D arrays are declared and initialized. Support your answer by providing a suitable example.	[03]	01	CI

QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH FINAL SEMESTER REGULAR EXAMINATION OF SECOND SEMESTER - FIRST YEAR 2021 OF 20 BATCH BE (TC)

SUBJECT: BASIC ELECTRONICS

Dated: 06,12,2021

Maximum Marks: 60

Time Allowed: 3 Hours.

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

1 (A)		CLO	Taxonomy Level	Marks
<u>/</u>	Draw circuit diagram of full wave bridge and full wave center tapped rectifier and differentiate each other. Also discuss the advantages and disadvantages of both rectifiers.	1	C2, C4	05
	Determine In, Ic, Ie, VDE, VCE and VCB in the following circuit where the transistor has a βcc = 200 and what do you mean by phase reversal in CE amplifier? **Re** 100 Ω **Re** 100 Ω	02	СЗ	05
)2 (A)	saturation state of bipolar junction transistor? And Identify it with respect of DC load line and also argues the importance of DC load line.	_02	Сі	05
	Determine the voltage gain and the ac output voltage if r_e =50Ω for the given circuit.		СЗ	05
(K)	Discuss any five types of special purpose diodes with its applications and VI characteristic curves and also state applications of clipper and clamper.	1	C1, C2	05
	Differentiate among BJT common emitter, common base, and Common collector. And why voltage divider biasing is mostly used other than other biasing methods?		C4	05

QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH FINAL SEMESTER REGULAR EXAMPLATION OF SECOND SEMESTER - FIRST YEAR 2021 OF 20 BATCH BE (SE/TG)

SUBJECT: LINEAR ALGEBRA & ANALYTICAL GEOMETRY

Dated: 09,12,2021 Maximum Marks: 60 Time Allowed: 3 Hours.

NOTE: ATTEMPT ALL QUESTIONS.

Q. No		CI.O	Taxonomy Level	Marks
01(a)	Balance the chemical equation using linear system $C_1H_1 + O_2 \rightarrow CO_2 + H_2O$	3	C3	08
01(b)	Find the rank of the matrix $A = \begin{bmatrix} 2 & 3 & 4 \\ 3 & 1 & 2 \\ -1 & 2 & 2 \end{bmatrix}$ by determinant method	1	СІ	04
02(a)	Find the equation of the plane that passes through the points $A(1,-1,2)$, $B(-3,-2,-6)$ & $C(5,-8,-2)$	1	CI	10
02(b)	Show that the lines are parallel L: $\frac{x+3}{2} = \frac{y-4}{-3} = \frac{z+1}{4}$ M: $\frac{x-1}{-4} = \frac{y+2}{6} = \frac{z-3}{-8}$	1	CI	02
03(a)	Find the ratio in which the xy-plane divides the segment joining the points A (3,1,5) and B (1, -1,3)	3	C3	04
03(b)	Find the parametric equations for the straight line passes through the point and parallel to the given vector. A $(2, -1, 0)$; $\vec{b} = [4, 3-2]$	2	C2	08
04(a)	Convert the equation of plane $2x-3y-z+11=0$. (i) Intercept form (ii) Normal form	2	C2	04
04(b)	Why we use coordinate system, hence locate the position of the point $P(3,4,5)$	1	CI	02
04(c)	Let $P(x_1, y_1, z_1)$ and $Q(x_2, y_2, z_2)$ are the opposite vertices of a parallelepiped, find the coordinates of the other vertices and sketch the parallelepiped	-	CI	06
05	Evaluate the following integrals (any two) (i) $\int e^x \sin x dx$ (ii) $\int \cos^{-1} x dx$ (iii) $\int x^3 \ln x dx$	2	C2	12

QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH FINAL SEMESTER REGULAR EXAMINATION OF SECOND SEMESTER - FIRST YEAR 2021 OF 20 BATCH BE (TC)

SUBJECT: OBJECT ORIENTED PROGRAMMING

Dated: 16.12.2021 Maximum Marks: 60 Time Allowed: 3 Hours,

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

	cro	Taxonomy Level	Mar
Define the following terms: i Public and Private access specifiers	3	C3	/2
iii Constructor			
je- Function overloading			
Write a class declaration that creates a class called DATA with one private data member, num, of type Int, one constructor that initialize the	3	СЗ	06
data member to 0 and two public member functions, void getdata() that			
num.			
Suppose you have given the following array:	3	CI	06
Using the pointer notation display the elements of the array on the screen.			
Write a C++ program to define a class Box with data members as length.	3	Ci	08
that assign values to data members and int area() which computes area			
dynamic objects at run-time and call setdata() and area() functions to perform the task accordingly.			
Write a function called swap that takes two integer type variables as	-	-	_
arguments. The swap function should interchange the values passed to it. Create a main program to exercise this function.		-	04
Define the concept of overloading? Why there is need of operator	3	CI	12
overloading, that overloads +, < and ≥ operators.		-	•••
By providing suitable programming examples, discuss the following: 1- Class and Object it-Pointers itl-Arrow operator	3	Cı	12
	iii New operator iii New operator je Function overloading Write a class declaration that creates a class called DATA with one private data member, num, of type Int, one constructor that initialize the data member to 0 and two public member functions, void getdata() that ask user to enter value of num and void show() that display the value of num. Suppose you have given the following array: int array[] = {11, 22, 33, 44, 55}; Using the pointer notation display the elements of the array on the screen. Write a C++ program to define a class Box with data members as length, width and height, and the member functions as void setdata(int, int, int) that assign values to data members and int area() which computes area and returns it to calling program. In the main program create three dynamic objects at run-time and call setdata() and area() functions to perform the task accordingly. Write a function called swap that takes two integer type variables as arguments. The swap function should interchange the values passed to it. Create a main program to exercise this function. Define the concept of overloading? Why there is need of operator overloading, that overloads +, < and > operators. By providing suitable programming examples, discuss the following:	Define the following terms: i. Public and Private access specifiers iii. Constructor iii. New operator jo. Function overloading Write a class declaration that creates a class called DATA with one private data member, num, of type lnt, one constructor that initialize the data member to 0 and two public member functions, void getdata() that ask user to enter value of num and void show() that display the value of num. Suppose you have given the following array: int array[] = {11, 22, 33, 44, 55}; Using the pointer notation display the elements of the array on the secrecal. Write a C++ program to define a class Box with data members as length, width and height, and the member functions as void setdata(int, int, int) that assign values to data members and int area() which computes area and returns it to calling program. In the main program create three dynamic objects at run-time and call setdata() and area() functions to perform the task accordingly. Write a function called swap that takes two integer type variables as arguments. The swap function should interchange the values passed to it. Create a main program to exercise this function. Define the concept of overloading? Why there is need of operator overloading in C++. Write any C++ program, using concept of operator overloading, that overloads + < and > operators. By providing suitable programfning examples, discuss the following:	Define the following terms: i Public and Private access specifiers ii Constructor iii New operator iii New operator iii Function overloading Write a class declaration that creates a class called DATA with one private data member, num, of type lnt, one constructor that initialize the data member to 0 and two public member functions, void getdata() that ask user to enter value of num and void show() that display the value of num. Suppose you have given the following array: int array[] = {11, 22, 33, 44, 55}; Using the pointer notation display the elements of the array on the screen. Write a C++ program to define a class Box with data members as length, width and height, and the member functions as void setdata(int, int, int) that assign values to data members and int area() which computes area and returns it to calling program. In the main program create three dynamic objects at run-time and call setdata() and area() functions to perform the task accordingly. Write a function called swap that takes two integer type variables as arguments. The swap function should interchange the values passed to it. Create a main program to exercise this function. Define the concept of overloading? Why there is need of operator overloading in C++. Write any C++ program, using concept of operator overloading, that overloads +, < and > operators. By providing suitable programming examples, discuss the following:

Good Luck

QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH, FINAL SELESTER REGULAR EXALINATION OF SECOND SEMESTER - FIRST YEAR 2021 OF 20 BATCH

	SUBJECT: PAKISTAN STUDIES
	Dated: 13.12.2021 Maximum Marks: 30 Time Allowed: 02 Hours,
	NOTE: ATTEMPT ALL QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS.
	Q. 01 Write short notes on the following:
	V. Latiore Resolution 1940
	3. Objective Resolution 1949
	Ø. 02 Why was Pakistan split into two page in 19712 Facilities
,	Why was Pakistan split into two parts in 1971? Explain reasons.
	• .
	Q.93 Why Constitution is necessary for a country? Write the silent features of
	Pakistan Constitution 1956.
	ton droman
	•
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<i></i>	AID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH
ا بري	FINAL SEMESTER REGULAR EXAMINATION OF SECOND SEMESTER - FIRST YEAR, 2021 OF 20 BATCH, B.E. (T.C.)
	SUBJECT: COMMUNICATION SKILLS
Dated	03,12,2021 Maximum Marks; 30 Time Allowed: 02 Hours
	ATTEMPT ALL QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS. Maximum Marks: 30 Time Allowed: 02 Hours.
	ATTEMPT ALE GOESTIONS. ALE GOESTIONS CARAT EGGAE MARKS.
Q. 01	"Readers are leaders" discuss the statement and elaborate all the types of
/	reading.
	forman a succession of the second of the sec
6	ON STATE OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH.
"	FINAL SELECTER REGULAR EXAMINATION OF SECOND SEMESTER - FIRST YEAR 2021 OF 20 BATOS
	BE (EL/C9/SE/TC)
	SUBJECT: PAKISTAN STUDIES
	Dated: 13,12,2021 Maximum Marks: 30 Time Allowed: 02 Hours.
	NOTE: ATTEMPT ALL QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS.
	Q. 01 Write short notes on the following:
). Latiore Resolution 1940
	3. Objective Resolution 1949
	do management
	Why was Pakistan split into two parts in 1971? Explain reasons.
	Q. 93 Why Constitution is necessary for a country? Write the silent features of

Pakistan Constitution 1956.

FINAL SEMESTER REGULAR EXAMINATION OF SECOND SEMESTER-FIRST YEAR, 2021 OF 20 HATCH BE (TC) SUBJECT: COMMUNICATION SKILLS Dated: 03,12,2021 Time Allowed: 02 Hours, Maximum Marks; 30 NOTE: ATTEMPT ALL QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS. "Readers are leaders" discuss the statement and elaborate all the types of Q. 01 reading. QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH. FINAL SEMESTER REGULAR EXAMINATION OF SECOND SEMESTER - FIRST YEAR 2021 OF 20 BATCH B.E (EL/C9/SE/TC) SUBJECT: PAKISTAN STUDIES Dated: 13,12,2021 Time Allowed: 02 Hours, Maximum Marks; 30 NOTE: ATTEMPT ALL QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS. Write short notes on the following: Lahore Resolution 1940 Objective Resolution 1949 Why was Pakistan split into two parts in 1971? Explain reasons. Why Constitution is necessary for a country? Write the silent features of Pakistan Constitution 1956.

FINAL SELECTER REGULAR EXAMINATION OF SECOND SEMESTER - FIRST YEAR 2021 OF 20 BATCH, BE (TC)

		SUBJECT: COMMUNICATION SKILLS	5
Dated: 03,	12,2021	Maximum Marks; 30	Time Allowed: 02 Hou
NOTE: AT	TEMPT ALL QUESTIONS	. ALL QUESTIONS CARRY EQUAL M	ARKS.
Q. 01 /	"Readers are leader	rs" discuss the statement and o	elaborate all the types of
	reading.		
Q.02	How does Non Ve	rbal Communication help you	become more expressive?
	Discuss Posture, G	esture and Silence.	
0.63	Interview is the fo that can help.	rtune decider for an individual	, discuss in detail the tips