

QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH MID-SEMESTER EXAMINATION OF FIRST SEMESTER - SECOND YEAR (300 SEMESTER) 2022, 20 BATCH, B.E. (TC)

SUBJECT: CIRCUIT ANALYSIS

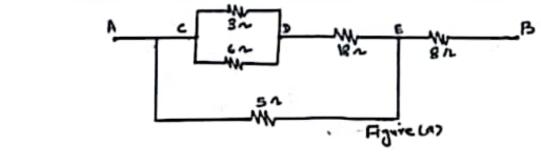
Dated: 17.02.2022

Maximum Marks: 20

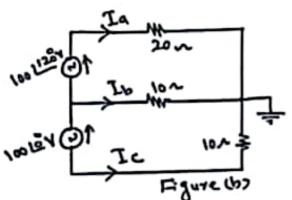
Time Allowed: 01 Hour,

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

Q. N		cro	Taxonomy Level	Marks
Q. 01	(a) With the help of figures explain the applications ohm's law. Also derive an expression for the curred divider rule when two resistors are connected parallel.	nt	Cı	05
	Calculate the effective resistance of the following combination of resistances shown in Figure (a) and voltage drop across each resistance when a p.d of 60V applied across the terminals A and B.	d a	Cı	05
Q. 02	(a) State Kirchhoff's laws as applied to electrical circult Enlist its applications. Also write-down the steps use for solving a circuit using nodal analysis method.		Cı	05
,	(b) A network is shown in Figure (b), determine the line currents la, la and lc. Also show that the sum of current at reference node is zero.		Cı	05
0.83	(a) What do you mean by analyzing an electric circuit? Als define the following terms, a) Linear and non-linear electric circuits b) Unilateral and bilateral elements c) Ideal and practical sources d) Node and its types	1	Cı	05
	(Ir) A network is shown in Figure (c), Using Δ-Y or Y-transformation compute the resistance betwee terminals AB, BC and CA.		Cı	05









Good Luck



QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH MID-SEMESTER EXAMINATION OF FIRST SEMESTER - SECOND YEAR (1) SEMESTER 2022, 20 BATCH, B.E. (TC)

SUBJECT: AMPLIFIER & OSCILLATORS

Dated: 18,02,2022

Maximum Marks: 20 Time Allowed: 01 Hour,

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

Q. No.		Question		Taxonomy Level	Marks
Q. 01	(a)	Draw the circuit of a practical single stage transistor amplifier. Explain the function of each component.	1	cz	05
	(b)	Determine In, Ic, In, Ver, Vcz and Vcz in the circuit given below. The transistor has a $p_{px} = 150$.	1	æ	05
Q. 02	ζK)	Explain transistor RC coupled amplifier with special reference to frequency response, advantages, disadvantages and applications.	1	C2	07
		A single stage amplifier has a voltage gain of 60. The collector load $R_{\rm C}$ = 500 Ω and input impedance is 1K Ω . Calculate the overall gain when two stages are cascaded through R-C coupling. Comment on the result.		C3	03
Q. 03		Write note on any two of the following: i. Common collector amplifier li. Hybrid parameters of a transistor iii. Transformer coupled transistor amplifier	1	C4	10

Good Luck





QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH MID-SEMESTER EXAMINATION OF FIRST SEMESTER - SECOND YEAR (300 SEMESTER) 2022, 20 BATCH, B.E. (TC)

SUBJECT: DIGITAL LOGIC DESIGN

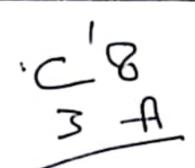
Dated: 16.02.2022

Maximum Marks: 20 Time Allowed: 01 Hour,

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

Q. N	io.	Question	ao	Taxonomy Level	Marks
Q. 01	છ	00 as directed: 1. $C8_{11} = 37_{11} =$	1	cı	06
	OP	Draw the NAND and NOR gate equivalent of AND, OR and inverter.	2	C2	04
Q. 02	(A)	Reduce $f(ABCD) = \Sigma(1,3,4,5,7,10,11,12,14,15)$ by using K-Map. Also find the minimized expression.	by using 1 C1	сі	04
	(ь)	Draw the K-Map table and expression for each of the following inputs: 1. $f = \Sigma(0,2,4 6,8,10 12,14)$ 3. $f = \Sigma(4,5,6,7)$ 3. $f = \Sigma(4,5)$	2	C2	06
Q. 03		Simplify the following Boolean expression: $\overline{ABC} + A\overline{BC} + \overline{ABC} + A\overline{BC} + ABC$ Also draw the circuit diagram of the simplified expression by using NOR universal gate.	3	C	10

Good Luck





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

MOSEMESTER EXAMINATION 2022 OF FIRST SEMESTER - SECOND YEAR OF SEMESTER 20-BATCH BE (TO

TECHNICAL REPORT WRITING AND PRESENTATION SKILLS

Dated: 14-02-2022

Time Allowed: 45 MINUTES

Max. Marks:

NOTE: ATTEMPT ANY TWO QUESTIONS, ALL QUESTIONS CARRY EQUAL MARKS

0-10				,
Q. No		cro	Taxonomy Level	Marks
01/	"The most important thing in communication is hearing what is not said". Describe the proverb by relating with the values of non-verbal communication according to your own perception.	01	C2	05
-02	What is the importance of technical writing report in professional life? Describe its types, examples and definitions.	01	C2	05
03	Discuss the purpose of oral presentation.	01	C2	05

Name of Subject Teacher: Hijab-c-zahra

QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH FINAL SEMESTER REGULAR EXAMINATION OF FIRST SEMESTER - SECOND YEAR 2022 OF 20-BATCH, B.E. (TC)

SUBJECT: TECHNICAL REPORT WRITING & PRESENTATION SKILLS

Dated: 06.06.2022 Maximum Marks: 30 Time Allowed: 02 Hours

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

Q. No.	QUESTION	CLOs	Taxonomy Level	PLOS	Harks
Q. 01	Describe the Format Guidelines for technical report	2	C2	2	10
1	writing.				
Q. 02	Discuss characteristics of technical writing report	2	C2	2	10
	by giving related examples.				
Q. 03	Explain how can we improve our presentation	3	C2	3	10
	skills in the class?				

The End



QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH FINAL SELESTER REGULAR EXAMINATION OF FIRST SEMESTER - SECOND YEAR 2022 OF 20 BATCH, B.E. (TC)

SUBJECT: DIGITAL LOGIC DESIGN

Dated: 30.05.2022

Maximum Marks: 60

Time Allowed: 3 Hour

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

Q. No.		QUESTION		Taxonomy Level	Ma	
2. 01	//\I	A staircase light is controlled by two switches one at the top of the stairs and another at the bottom of the stairs: 1. Make the truth table for this system 2. Write the logic equation in SOP form 3. Realize the circuit using AND-OR gates	-1	CZ		
	(b)	Convert -9810 to two's complement and verify the result.	1	СЗ	1	
Q. 02	(9)	Draw the truth table, equations, circuit and block symbol of half adder and full adder.	2	C4	1	
	(0)	Drays the truth table and logic diagram of decimal to BCD encoder.	2	C2		
Q. 03	0	Define display devices and discuss different types of display devices.	3	C3		
	(6)	Define shift register discuss the basic forms of data movement in shift registers.	3	C4		
Q. 04	(9)	By using 4-bit adder perform the following addition, when A=1011 and B=1110. Draw neat and clean diagram also. Write down the Cout and Sum output of each stage.		C2		
	8	Draw neat and clean diagram of 1 to 4 line MUX.	2	C3		
9.95	×	Write short notes on the following: 1. Latch and its types 2. Fip Flop and its types	3	C4		

