



QUAID-E-AWAM UNIVERSITY OF ENGINEERING SCIENCE AND  
TECHNOLOGY, NAWABSHAH  
MID SEMESTER EXAMINATION 2021 OF SECOND SEMESTER FIRST YEAR  
(20-BATCH) OF B.E. (ELECTRICAL ENGINEERING)

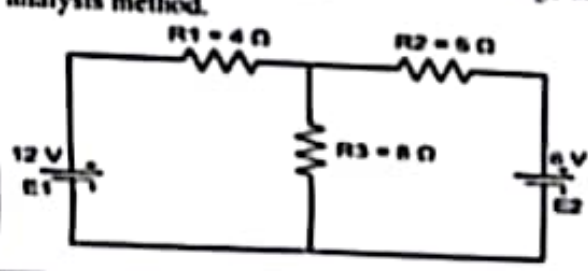
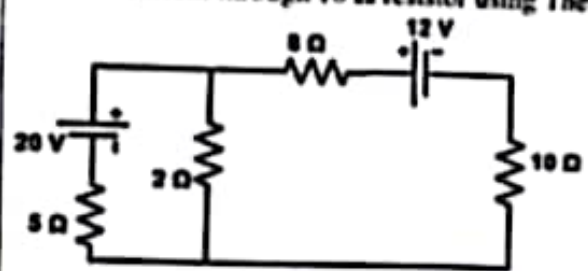
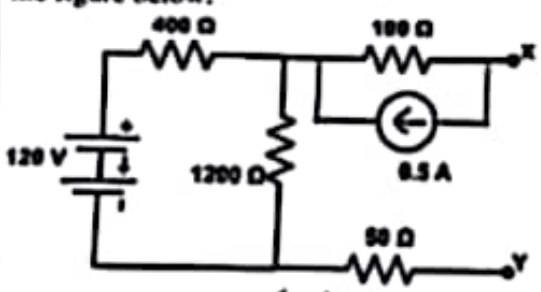
Subject: Linear Circuit Analysis (EL-102)

Dated: 16-10-2021

Time Allowed: 1 Hour (3 C.H)

Max. Marks: 20

NOTE: ATTEMPT ANY TWO QUESTIONS.

Q. No		CLO	Taxonomy Level	Marks
01(a)	Define the following. (i) Linear and non-linear electric circuit (ii) Active and passive elements (iii) Dependent and independent sources (iv) Branch and node (v) Ideal and real sources	1	C1	05
01(b)	Calculate the individual currents flowing through $R_1$ , $R_2$ and $R_3$ in the following network using nodal voltage analysis or mesh analysis method. 	1	C1	05
02(a)	Define and illustrate the Thevenin's and Norton's theorem. Also write down the steps to find the Thevenin's equivalent network.	2	C4	05
02(b)	Find the current through $10\Omega$ resistor using Thevenin's theorem. 	2	C4	05
03(a)	Derive the expression of current divider rule and voltage divider rule using an appropriate circuit diagram.	1	C1	05
03(b)	Find the Norton's equivalent network of the circuit, as shown in the figure below. 	2	C4	05

---The End---



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

**MID-SEMESTER EXAMINATION OF SECOND SEMESTER - FIRST YEAR (2<sup>nd</sup> SEMESTER) 20-BATCH**

**B.E (EL / CS / SE) / B.S (IT / CS)**

**SUBJECT: ISLAMIC STUDIES / ETHICS**

**Dated: 15.10.2021**

**Maximum Marks: 10**

**Time Allowed: 45 Minutes.**

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

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**ISLAMIC STUDIES**

- Q. 01 Write down the Surah Hujrat related to the manners in the respect of Prophet S.A.W and describe the actions which indicate the betterment for society.
- Q. 02 Describe the qualities of believers in the light of Surah Furqan.
- Q. 03 Write down the commandments of Surah Al-Ana'am and describe the qualities of believers in the light of Surah Al-Momnoon as well.

**ETHICS (FOR NON-MUSLIMS)**

- Q. 01 Write down the life history of Gotham Buddha.
- Q. 02 Describe the value of Ethics in all religions.
- Q. 03 Write down about the religion Hinduism and describe its holy days and festivals.

**The End**



**MID-SEMESTER EXAMINATION OF SECOND SEMESTER - FIRST YEAR (2<sup>ND</sup> SEMESTER), 20<sup>TH</sup> BATCH, B.E. (EL)**

**SUBJECT: LINEAR ALGEBRA & ANALYTICAL GEOMETRY**

**Datum: 13.10.2021**

**Maximum Marks: 20**

Time Allowed 1 hour.

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

38 - 580  
 10 GOOD LUCK  
 10 8  
 08 5 R<sub>2</sub> - R<sub>1</sub>



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

**MID-SEMESTER EXAMINATION OF SECOND SEMESTER - FIRST YEAR (2<sup>ND</sup> SEMESTER) 20 BATCH**

**B.E (EL/CS/SE)/B.S (IT/CS)**

**SUBJECT: ISLAMIC STUDIES / ETHICS**

**Dated: 15.10.2021**

**Maximum Marks: 10**

**Time Allowed: 45 Minutes.**

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

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**The End**





**QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH**  
**MID-SEMESTER EXAMINATION OF SECOND SEMESTER - FIRST YEAR (2<sup>ND</sup> SEMESTER) 20-BATCH B.E (EL, CS, TC, SW)**

**SUBJECT: PAKISTAN STUDIES**

**Dated: 14.10.2021**

**Maximum Marks: 10**

**Time Allowed: 45 Minutes**

**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 Bengal 1905 and reasons for formation of AIML.
- Q. 03 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<sup>ND</sup> SEMESTER) 20-BATCH B.E (EL)**

**SUBJECT: COMMUNICATION SKILLS**

**Dated: 12.10.2021**

**Maximum Marks: 10**

**Time Allowed: 45 Minutes**

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

- Q. 01 State in detail the significance of Communication Skills. How far does this subject help you to interact with the people effectively in academic context? 05
- Q. 02 'Presentation is one of the most persuasive ways of convincing people for business and educational purposes.' Justify the statement with suitable examples. 05
- Q. 03 Elaborate the term 'Active Listening'. Give a detailed account of the benefits of Listening. State how listening influences your Communication Skills. 05

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



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

Subject: ELECTRONIC DEVICES AND CIRCUITS

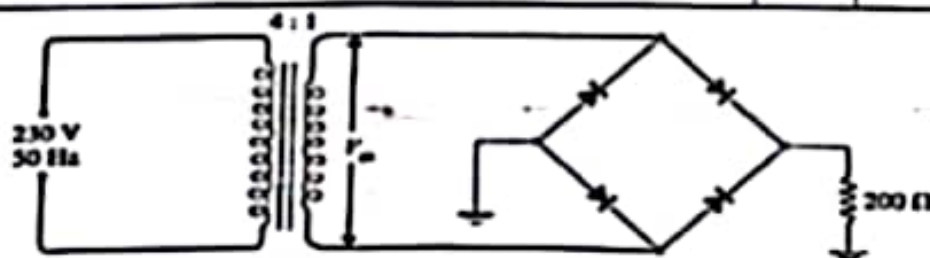
Dated: 11-10-2021

Time Allowed: 1 Hour (2C1D)

Max. Marks: 20

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

Q. No		CLO	Taxonomy Level	Marks
Q.No.1 (a)	Mention some important applications of Electronics. Explain the concept of Energy bands in solids, Draw the Energy level diagram of conductor, semiconductor and insulator.	1	C1	04
Q.No.1 (b)	Define the term doping and its need. How does it effect the conductivity of the parent semiconductor material? Distinguish between p-type and n-type semiconductor material. Discuss the behavior of a PN-Junction under forward and reverse biasing with V-I characteristic curve.	1	C1	06
Q.No.2 (a)	With a neat sketch, describe the operation of Full wave bridge rectifier. Derive the equation for the maximum efficiency of a full wave rectifier.	2	C2	06
Q.No.2 (b)	In the bridge type circuit shown in Fig.1, the diodes are assumed to be ideal. Find : (i) d.c. output voltage (ii) peak inverse voltage (iii) output frequency.	3	C3	04
Q.No.3 (a)	Discuss the role of filter circuit at the output of rectifier. Enlist types of filters and discuss any one of them.	2	C2	7
Q.No.3 (b)	A power supply A delivers 10 V dc with a ripple of 0.5 V r.m.s. while the power supply B delivers 10 V dc with a ripple of 5 mV r.m.s. Which is better power supply?	3	C3	3



The End

**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)**

**SUBJECT: COMMUNICATION SKILLS**

**Dated: 03.12.2021**

**Maximum Marks: 30**

**Time Allowed: 02 Hours.**

**NOTE: ATTEMPT ALL QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS. CREDIT WILL BE GIVEN ON CLARITY, ORGANIZATION AND RELEVANCE.**

Q. 01	'Interviews are a communication process that use questions and answers in response. Interview skills are skills or actions that allow a person to be more effective throughout the interview process for a new position.' Justify the statement critically in the light of the interview skills and state the significance of the interviews for job purposes.	10
Q. 02	How is reading purposeful? Elaborate the concepts 'skimming and scanning' in reading. Also give a detailed account of the significance of reading in your academic career.	10
Q. 03	'Speaking skills are defined as the skills which allow us to communicate effectively. They give us the ability to convey information verbally and in a way that the listener can understand. Speaking is an interactive process where information is shared, and if necessary, acted upon by the listener.' Justify the statement in the light of the significance of Speaking and Listening in Communication Skills.	10







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

**FINAL SEMESTER REGULAR EXAMINATION OF SECOND SEMESTER - FIRST YEAR, 2021 OF 20 BATCH**

**BE (EL/CS/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.**

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✓  
Q. 01 Write short notes on the following:

1. Lahore Resolution 1940
2. Objective Resolution 1949

✓  
Q. 02 Why was Pakistan split into two parts in 1971? Explain reasons.

Q. 03 Why Constitution is necessary for a country? Write the silent features of Pakistan Constitution 1956.





**B.E (EL / CS / SE), B.S (IT / CS)**

**SUBJECT: ISLAMIC STUDIES / ETHICS**

**Dated: 16.12.2021**

**Maximum Marks: 30**

**Time Allowed: 02 Hour**

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

**ISLAMIC STUDIES (FOR MUSLIMS)**

- Q. 01 Write down the meaning of Revelation, its types and describe also the meaning of Hadith and its types. ✓
- ✓ Q. 02 Describe the importance of Tauheed and write its types in detail.
- Q. 03 Describe Honour of Holy Prophet S.A.W (Namoos-e-Risalat) in detail. ✓

**ETHICS (FOR NON-MUSLIMS)**

- Q. 01 Describe history of religion Hinduism and mention its festivals.
- Q. 02 Write down the life history of Jesus Christ and describe the teachings of Christianity.
- Q. 03 Write short notes on the following:
1. Ethical teachings of Islam
  2. Caste System in Hinduism
  3. Ten Commandments of Prophet Moses

**Good Luck**