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

FINAL SEMESTER REGULAR EXAMINATION OF FIRST SEMESTER – THIRD YEAR, 2023 OF 20-BATCH, B.E (CS)

SUBJECT: WEB ENGINEERING

Dated: 01.06.2023 Maximum Marks: 60 Time Allowed: 3 Hou

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

Q. No.		QUESTION	CLO	Taxonomy Level	PLO	Marks
Q. 01	(a)	What are the different methods to include JS code in an html file?	2	C3	3	0
	(b)	Write JS code to print your Roll ID on browser screen.	2	C3	3	0
	(c)	Describe HTML cookies with an example and it's role in web sites.	2	C3	3	0
Q. 02	(a)	Describe different types of loops provided by JavaScript with examples.	2	C3	3	0
	(b)	Write JS code to print sum of first 100 natural numbers using for loop.	2	C3	3	0
	(c)	Write JS code to validate the following registration form. Use any id for the form elements. **Registration Form** User id: [Required and must be of length 8 to 12] Password: [Required and must be of length 7 to 12]	2	C6	3	0
Q. 03	(a)	How PHP is different from JavaScript?	3	C3	3	04
	(b)	Write a PHP script to print "Hello from web server" in browser window.	3	C3	3	04
	(c)	Describe explode() function with an example.	3	C3	3	04
Q. 04	(a)	Describe indexed array and an associative array with declaration examples.	3	C3	3	04
	(b)	What is difference between _GET and _POST in PHP?	3	C3	3	04
	(c)	What is the difference between for and foreach loop in PHP?	3	C3	3	04
Q. 05		Consider the below given table in "genome" database.	3	C6	3	12

Roll_Id	First_Name	Last_Name	Gender
fp01	Danish	Solangi	Male
fp02	Kanwal	Sehto	Female

1. Write a PHP script to:
   a) Open a database connection using mysql interface
   b) Insert the following values in the above table:
      ['fp03', 'sam', 'durrani', 'Male']
   c) Close the connection.
2. Write a PHP script to:
   a) Open a database connection to genome database using mysql
   b) Fetch all the records from the 'genome' table using select query
   c) Print all the records using a loop
   d) Close the connection

The End

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

FINAL SEMESTER REGULAR EXAMINATION OF FIRST SEMESTER – THIRD YEAR, 2023 OF 20 BATCH, B.E (CS)

SUBJECT: ENGINEERING ECONOMICS

Dated: 08.06.2023 Maximum Marks: 30 Time Allowed: 02 Hour

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

Q. No.		QUESTION	CLO	Taxonomy Level	PLO	Mark
Q. 01	(a)	Discuss the causes of inflation. Also explain following types of inflation with appropriate example: (i) Open inflation (ii) Suppressed inflation (iii) Demand pull inflation (iv) Hyper inflation	2	C2	11	04
	(b)	An economy is experiencing inflation at the rate of %6 per year. An item presently cost $100. If the %6 inflation rate continues, what will be the price of this item in five years?	2	C2	11	03
	(c)	Differentiate between simple and compound interest.	2	C4	11	03
Q. 02	(a)	What are the functions of money? Explain stages of evolution of money in details. Discuss printing money and value of currency.	2	C2	11	05
	(b)	Discuss cash flows along with it subcategories. Construct a cash flow diagram for the following: $10,000 outflow at time zero, $3000 per year in-flow in years 1 through 5 at an interest rate of 10% per year, and an unknown future amount in year 5.	2	C2	11	05
Q. 03	(a)	Discuss the benefits of using digital currency rather than physical currency? Also differentiate between Digital currency and Cryptocurrency.	2	C2	11	05
	(b)	Describe your understanding about Bitcoin along with the concepts such as blockchain and mining.	2	C1	11	05

The End

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

FINAL SEMESTER REGULAR EXAMINATION OF FIRST SEMESTER – THIRD YEAR, 2023 OF 20 BATCH, B.E (CS/SW)

SUBJECT: STATISTICS AND PROBABILITY

Dated: 05.06.2023 Maximum Marks: 60 Time Allowed: 3 Hour

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

Q. No.		QUESTION	CLO	Taxi Level	PLO	Ma
Q. 01	(a)	Define Probability and its types.	3	C2	6	0
	(b)	If a card is drawn form an ordinary deck of 52 playing cards, find the probability that: (i) The card is red card. (ii) The card is diamond card. (iii) The card is a 10.	3	C2	6	0
Q. 02	(a)	Define conditional probability.	3	C2	6	0
	(b)	Two coins are tossed. What is the conditional probability that two heads result given that there is at least one head?	3	C2	6	0
Q. 03	(a)	What are the Independent and dependent events?	3	C2	6	06
	(b)	Two events A and B are such that $P(A) = \frac{1}{4}, P(A\|B) = \frac{1}{2}$ and $P(B\|A) = \frac{2}{3}$. (i) Are A and B independent events? (ii) Are A and B mutually exclusive events? (iii) Find $P(A \cap B)$ and $P(B)$.	3	C2	6	06
Q. 04		Explain counting principles with examples.	2	C6	6	12
Q. 05	(a)	A club consists of 4 members. How many sample points are in the sample space when 3 officers president, secretary and treasurer are to be chosen.	2	C6	6	0
	(b)	A three person committee is to be formed from a list of four persons. How many samples points are associated with the experiment?	2	C6	6	0

The End

QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHA.

FINAL SEMESTER REGULAR EXAMINATION OF FIRST SEMESTER – THIRD YEAR 2023 OF 20 -BATCH, B.E (CS)

SUBJECT: MICROPROCESSOR AND INTERFACING

Dated: 12.06.2023 Maximum Marks: 60 Time Allowed: 3 H

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

Q. No.		QUESTION	CLOs	Taxonomy Level	PLOs	Ma
Q. 01	(a)	What is microprocessor? Demonstrate the silent features of 8-bit microprocessor.	2	C3	1	0
	(b)	Explain the functions of following pins of 8085 microprocessor. 1. HOLD-HLDA 2. INTR-$\overline{\text{INTA}}$ 3. VCC-VSS	3	C5	3	0
Q. 02	(a)	Write an assembly language program which calculates the subtraction of two hexadecimal numbers.	2	C3	1	06
	(b)	Explain the following instructions with the help of programming example. 1. MVI 2. STA 3. JNZ	3	C5	3	06
Q. 03	(a)	What is the importance of registers in the design of microprocessor? Explain general purpose registers with programming example.	2	C3	2	06
	(b)	Write an assembly language program which calculates the 2's complement of number.	3	C5	5	06
Q. 04	(a)	What is addressing mode? Explain memory and register addressing modes with suitable example.	2	C3	2	06
	(b)	What is ISA architecture? Explain memory reference instructions of 8085 microprocessor with programming example.	3	C5	5	06
Q. 05	(a)	What is hexcode? Explain opcode, operand, address of operand with suitable example.	2	C3	2	06
	(b)	Write a program in assembly language which calculates the sum of following series 1 + 2 + 3 + ... +9 + 10	3	C5	5	06

The End

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

FINAL SEMESTER REGULAR EXAMINATION OF FIRST SEMESTER – THIRD YEAR 2023 OF 20-BATCH, B.E (CS)

SUBJECT: COMMUNICATION SYSTEMS

Dated: 29.05.2023 Maximum Marks: 60 Time Allowed: 3 Hour

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

Q. No.			CLO	Taxonomy Level	PLO	Marks
1	(a)	Discuss the concept and importance of radio communication in global connectivity.	1	C2	1	[06]
	(b)	Describe three types of radio propagation, explaining their unique characteristics and applications.	2	C4	3	[06]
2	(a)	Define the term "multiplexing" in the context of communication systems and explain its function.	1	C2	1	[06]
	(b)	Describe the various multiplexing techniques, providing diagrams to illustrate each one.	2	C4	3	[06]
3	(a)	Discuss the history and significance of radar communication, highlighting key developments over time.	1	C2	1	[06]
	(b)	Explain the basic workings of a radar system and describe three different types of radar systems, along with their applications.	2	C4	3	[06]
4	(a)	Discuss the concept and role of satellite communication in modern communication systems.	1	C2	1	[06]
	(b)	Detail the workings of a satellite communication system and discuss various modulation techniques used in it.	2	C4	3	[06]
5	(a)	What is the role of a communication system in daily life? Discuss its importance in the context of the modern digital era.	1	C2	1	[06]
	(b)	Explain the concept and workings of the Global Positioning System (GPS). How does it contribute to our daily navigation needs?	1	C2	1	[06]

THE END

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

MID-SEMESTER EXAMINATION OF FIRST SEMESTER – THIRD YEAR (5TH SEMESTER) 2023, 20 BATCH, B.E (CS)

SUBJECT: ENGINEERING ECONOMICS

Dated: 10.03.2023 Maximum Marks: 10 Time Allowed: 45 Minutes.

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

Q. No.		QUESTION	CLOs	Taxonomy Level	PLOs	Mar
Q. 01	(a)	Define the term "economics". Also discuss the flows of goods, services, resources and money payments in a simple economy with the help of suitable diagram. Illustrate the effect of price on demand and supply.	1	C1	1	03
	(b)	Define the steps in engineering economics study with the help of flow chart.	1	C1	1	02
Q. 02	(a)	Discuss break-even point. Draw break-even chart and explain its component. Beta Company has the following details. Fixed cost=Rs. 40,000,000 Variable cost per unit=Rs. 200 Selling price per unit=Rs.300 Find 1. The break-even sales quantity 2. The break-even sales 3. If the actual production quantity is 60,000, find (i) contribution and (ii) margin of safety	1	C1	1	03
	(b)	Describe the following cost with examples: 1. Opportunity cost 2. Marginal cost	1	C1	1	02
Q. 03	(a)	Define the following. 1. Interest earned. 2. Interest paid. 3. Simple interest 4. Compound interest	1	C1	1	03
	(b)	Solve the following. 1. A student deposits $1000 in a savings account that pays interest at the rate of 6% per year, compounded annually. If all of the money is allowed to accumulate, how much will the student have after 12years? Compare this with the amount that would have accumulated if simple interest had been paid. 2. An economy is experiencing inflation at the rate of %6 per year. An item presently cost $100. If the %6 inflation rate continues, what will be the price of this item in five years?	1	C1	1	02

Good Luck

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

MID-SEMESTER EXAMINATION OF FIRST SEMESTER – THIRD YEAR (5TH SEMESTER) 2023, 20 BATCH, B.E (CS / SW)

SUBJECT: STATISTICS AND PROBABILITY

Dated: 09.03.2023 Maximum Marks: 20 Time Allowed: 01 Hour.

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

<table>
<tr><th>Q. No.</th><th>Question</th><th>CLO</th><th>Taxonomy Level</th><th>Marks</th></tr>
<tr><td>Q. 01</td><td>Define statistics, what are the characteristics and limitations of statistics?</td><td>1</td><td>C2</td><td>10</td></tr>
<tr><td>Q. 02</td><td>Compute the Geometric and Harmonic means for the following distribution of annual death rates:
<table>
<tr><td>x_i</td><td>3.95</td><td>4.95</td><td>5.95</td><td>6.95</td><td>7.95</td><td>8.95</td><td>9.95</td><td>10.95</td><td>11.95</td><td>12.95</td><td>13.95</td></tr>
<tr><td>f_i</td><td>1</td><td>4</td><td>5</td><td>13</td><td>12</td><td>19</td><td>13</td><td>10</td><td>6</td><td>4</td><td>1</td></tr>
</table></td><td>1</td><td>C2</td><td>10</td></tr>
<tr><td>Q. 03</td><td>Find the median and quartiles for the distribution of examination marks given below:
<table>
<tr><td>Marks</td><td>30-39</td><td>40-49</td><td>50-59</td><td>60-69</td><td>70-79</td><td>80-89</td><td>90-99</td></tr>
<tr><td>No. of Students</td><td>8</td><td>87</td><td>190</td><td>304</td><td>211</td><td>85</td><td>20</td></tr>
</table></td><td>1</td><td>C1</td><td>10</td></tr>
</table>

The End

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

1st Semester - 3rd Year (5th Semester) Mid-Semester Examination, 2023 of 20-Batch B.E(CSE)

SUBJECT: MICROPROCESSOR AND INTERFACING

Dated: 13-03-2023 Maximum Marks: 20 Time Allowed: 01 Hour,

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

Question No.	Question	CLO Assessed	M
Q. 01 a)	What is microprocessor? Explain general purpose registers of 8-bit microprocessor with suitable example.	CLO-1	(
b)	What is system bus? Explain address bus with example	CLO-1	(
Q. 02 a)	Explain briefly 1. Instruction register 2. Program Counter 3. Accumulator	CLO-1	(
b)	Convert the following decimal numbers into 2's complement form. 1. -12 2. -8 3. -128 4. -256	CLO-1	(
Q. 03 a)	What is instruction? Explain opcode, operand and address of operand with example.	CLO-1	(
b)	Explain briefly. 1. Memory address register 2. Program memory 3. FDX	CLO-1	(

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

MID-SEMESTER EXAMINATION OF FIRST SEMESTER – THIRD YEAR (5TH) 2023, 20-BATCH, B.E (CS)

SUBJECT: COMMUNICATION SYSTEMS

Dated: 06.03.2023 Maximum Marks: 20 Time Allowed: 01 Hour

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

Q. No.		Question	CLO	Taxonomy Level	Mo
Q. 01	(a)	Discuss communication systems in general. Also justify why it is important in today's modern age.	1	C2	[0
	(b)	Explain Communication Model and its major elements with the help of a diagram.	2	C3	[0
Q. 02	(a)	What are analog and digital signals? Explain with the help of suitable diagrams.	1	C2	[0
	(b)	Discuss types of Electronic Communication with suitable diagrams.	2	C3	[0
Q. 03	(a)	Discuss Modulation and Demodulation. Also explain analog modulation and its types.	2	C3	[0
	(b)	Explain morse code.	1	C2	[0

The End