QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH MID-SEMESTER EXAMINATION OF SECOND SEMESTER - SECOND YEAR ((**) SEMESTER) 2000, 20 PATCH, BE (SW) SUBJECT: SOFTWARE DESIGN & ARCHITECTURE

Dated: 22.11.2022 Maximum Marks: 10 Time Allowed: 45 Minut

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

Q. No.	Question /	CLOs	Marks
J. 01	What is Software Design? Draw flow chart of generic software	1	05
	engineering design process.		
Q. 02	What is Software Architecture? Discuss stages of design.	1	05
2. 63	Briefly discuss 4+1 view model.	1	05

The End



QUAID EAWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH And Semester Examination of 2nd Semester - 2nd Year (4th Semester) 2022 of 20-Batch B.E. (SW)

SUBJECT: COMPUTER NETWORKS

Dated; 21,11,2022

Maximum Marks: 20

Time Allowed: 01 H

Note: Attempt any TWO (02) questions. All questions carry equal marks.

27	Question	Marks	CLC
	Discuss merits, demerits, and different types of computer networks based on data rates and coverage area.	06	1
(b)	Enlist and brief the working of different OSI layers.	04	:1
Q=2(a	Analyze the working and usage of any THREE of the following devices: Router 2. Switch 3. Bridge 4. Amplifier	06	2
16): Identify what can be considered a 'network resource'.	04	2
	Justify the following: The ring is essentially a collision-free topology. MAC address of a device remains the same; however, its IP may change for a medium-sized organization, a class-B IP address is a better choice. Packet switching is easier and more affordable than circuit switching. Switch is a more preferred device than a hub.	10 e. e.	1

THE END

QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAP MID-SEMESTER EXAMINATION OF SECOND SEMESTER - SECOND YEAR (4TH SEMESTER) 2022, 20-BATCH, B.E. (SW)

SUBJECT: ENTREPRENEURSHIP

Maximum Marks: 10 Dated: 25.11.2022 Time Allowed: 45 Min NOTE: ATTEMPT ANY TWO (02) QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS.

Q.No.	Question	aos	Taxonomy Level	PLO:	M
Q. 01	Define the terms entrepreneur and entrepreneurship. Also describe who can be an entrepreneur.		C1	1	0
Q. 02	Describe the 6Cs that motivate entrepreneurs to establish their own business.	1	C2	1	0.
Q:403	Describe different types of entrepreneurs with respect to the goals they have.	1	C2	1	05

The End

QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH, Mid Semester Examination of Second Semester – Second Year (1st Semester) 2022 of 20-Batch B.E (SW)

SUBJECT: OPERATIONS RESEARCH

Dated: 23-11-2022 Maximum Marks: 20 Time Allowed: 01 Hour,

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

Q.Y	Define the	following:					(10)	167
			search Phases sible and optim		•			
			Coperations R					
Q. <u>\$</u>	products control how many two products	nas limited a lay and labo plates and r ets have the	amounts of two or. Given these mugs to produc	limited resources us the each day, it	products daily plates and sed in the production of the production of the production of the production and ments for production and	hese es to know fit. The	(10)	CI
		Product	Labor	Clay	Profit	- 1	- 1	
	·	Plates	Hours/unit	Lbs/unit	Rs/unit	- 1	- 1	
		Mugs	3	12	40		1 4	2011
	production.				lay available each day for			
	Formulate to of the mode Use the Gra	his problem I separately phical meth	as a linear pro and then com od and find th	ogramming m bining the co ne optimum so	nodel by defining each components into a single molution.	omponent nodel.		
3 /	A company newspaper. In the constraints be 1. The constraints be 2. Each in the constraints be 3. The constraints be 3. The constraints be 3. Each in the co	his problem I separately phical meth is determini Each televis d is expecte elow: company has ect. minute of te	as a linear property and then commod and find the ing how to addition ad is expend to be seen but shaded as a budgeted as a budg	ogramming makining the conceptiment so wertise nations ected to be seen by 3 million re- maximum of 1	model by defining each components into a single molution. ally on television and one by 15 million viewers eaders. The company has Rs. 600,000 to advertise	a and each the	(10)	CI
3 /	A company newspaper. In the constraints be a company a constraints be a constraint be a constra	his problem I separately phical meth is determini Each televis d is expecte elow: company has ect. minute of te paper ad cos ompany's minute and and	as a linear property and then commod and find the ing how to addition ad is expected to be seen but should b	ogramming makining the content of the continum so the continum so the content of	model by defining each components into a single molution. ally on television and one by 15 million viewers eaders. The company has Rs. 600,000 to advertise ,000 and each one-page trecommends using at-le	a and each the	(10)	CI
3 /	A company newspaper. In the constraints be a company a constraints be a constraint be a constra	his problem I separately phical meth is determini Each televis d is expecte elow: company has ect. minute of te paper ad cos ompany's minute and and	as a linear property and then commod and find the ing how to addition ad is expected to be seen but should b	ogramming makining the content of the continum so the continum so the content of	model by defining each components into a single molution. ally on television and one by 15 million viewers eaders. The company has Rs. 600,000 to advertise	a and each the	(10)	Cı

QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH MID-SEMESTER EXAMINATION OF SECOND SEMESTER - SECOND YEAR (4TH SEMESTER) 2022, 20-BATCH, SWE

SUBJECT: WEB ENGINEERING

Dated: 24.11.2022 Maximum Marks: 20 Time Allowed: 01 Hour.

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

F	Q. No.	QUESTION	CLOs	Taxonomy Level	PLO	s M
	Į. 01 [*]	Discuss any of the three from the following along with example and syntax: V. HTML attributes II. HTML paragraph tags III. HTML elements IV. Image tags	1	2	1	1
	Q. 02	Write down a HTML code for creating a simple table with two rows and two columns. Insert your name and roll number in it and also give a web page heading "MID-EXAM Program"	1	3	1	10
	Q. 03	Differentiate the following: web page and website b) developing a site for a corporate world and developing a site for individual c) HTML and XML d) HTML and CSS	1-	4	1	10

Good Luck



QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH FINAL SEMESTER REGULAR EXAMINATION OF SECOND SEMESTER - SECOND YEAR 2023 OF 20-BATCH BE (SW)

SUBJECT: WEB ENGINEERING

Dated: 19.01.2023 Maximum Marks: 60 Time Allowed: 3 Hours.

Q.Na.	QUESTION	ao	Taxanomy Level	rıo	Merks
Q. 01	Define cascading style sheet and state the different ways you could integrate CSS in HTML page.	2	1	1	6
	Describe the different media types allowed by CSS.	2	2	1	6
Q. 02	Explain the syntax in CSS for TEXT a) Text color b) Text direction c) Space between characters d) Space between words e) Text alignment	2	1	1	12
Q. 03	The fundamental thing to consider when creating a list style is to use different bullet style and numbering. The example is given below in the picture. Write a CSS syle sheet code to set all order and un order lists with bullet styles. Unordered lists	3	3	2	12
Q. 04	Define JAVA Script and also its advantages and disadvantages.	1	1	1	6
	Discuss the placement of JavaScript in HTML	2	2	1	6
Q. 05	Write short answers of the following. I. What is page redirection and how it works II. What are cookies III. Write javaScript control statement	2	2	1	12



QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH FINAL SEMESTER REGULAR EXAMINATION OF SECOND SEMESTER - SECOND YEAR 2021 OF 20 PATOL BE 15W)

SUBJECT: OPERATION RESEARCH

Dated: 16.01,2023 Maximum Marks: 60 Time Allowed: 3 Hours.

Q. No.	A	Terr	T	ma	Marks
_		cro		_	
Q. 01		1	C3	1	12
l	and it must contain two basic ingredients C1 and C2. C1 costs Rs 5 per kg and	ı	ı		
	C2 costs Rs 8 per kg. Strength considerations dictate that the brick should	ı			1
l	contain no more than 4 kg of C1 and minimum 2 kg of C2. Since the demand	ı			
ı	for the product is likely to be related to the price of the brick, find out	1			1
Q. 02	graphically the minimum cost of the brick satisfying the above conditions. Answer the following in short:	2	C3	2	12
Q. 0,2	What is the rule to change the direction of inequality in constraints?	1		•	
1	2. Why slack variables are used in Simplex method?				
1	3. What is the role of artificial variables in simplex method?				
1	4. What is importance of +M or -M in Big M method?				
1	5. What is advantage of Two Phase method over Big M method?				
ı	6. How to deal with unrestricted variables in Simplex method?				
Q. 03		2	C3	2	12
14.00	1. Category 1: Unbounded solution space and unbounded optimal				
1	solution	- 1			
1	2. Category 2: Unbounded solution space and bounded optimal	- 1			
1	solution	- 1		- 1	- 1
1	Prove that the following operation research model belongs to Category 1:	- 1		- 1	- 1
1	Maximize $3x_1 + 2x_2$	- 1		- 1	
1	Subject to x1 - x2 <= 15	- 1			
ı	2x1 - x3 <= 40	- 1	- 1	- 1	- 1
	$and x_1, x_2 >= 0$	3	C3	3,5	12
Q. 04	What are the applications of Duality in operations research?	3		3,5	
	Determine the Dual of the following LPP (a) Minimize Sx ₁ + 8x ₂ a	- 1	- 1	- 1	- 1
	Subject to 4x1 + 9x1 >= 100	ı	- 1	I	
	2x1 + x2 <= 20	- 1		- 1	
	$2x_1 + 5x_2 >= 120$	- 1			
	and x ₁ , x ₁ >= 0	- 1		- 1	
		- 1			
	(b) Maximize Sx ₁ + 6x ₂	- 1			
	Subject to $4x_1 + 7x_2 = 2$	- 1	- 1		
	$5x_1 + 2x_2 = 10$	ı			
	6x1 + 8x1 = 25				
	and x _L x ₂ >= 0	_			
Q. 05	Describe transportation problems? What is difference between North West	3	C3	3,5	12
	Corner rule and Vogel's method?	- 1			
	In the following table supply level, demands at various destinations (P, Q	- 1			
	and R), and the unit cost of transportation are given. Use North West Corner				
	rule to find the initial solution.				
- 1					
ı	Origin P Q R Supply				
- 1	A 5 7 8 70				1
- 1	B 4 4 6 30				
- 1	C 6 7 7 50	- 1			
- 1	Demand 80 40 30 150	- 1	- 1		



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

FINAL SEMESTER REGULAR EXAMINATION OF SECOND SEMESTER - SECOND YEAR 2023 OF 20 BATCH, BLE (SW)

SUBJECT: OPERATION RESEARCH

Dated: 16.01.2023 Maximum Marks: 60 Time Allowed: 3 Hours.

Q.Na	Questions	cro	Level	rio	Marks
Q. 01	The PURE CLAY Company creates a special hard brick which weights 5 kg and it must contain two basic ingredients C1 and C2. C1 costs Rs 5 per kg and C2 costs Rs 8 per kg. Strength considerations dictate that the brick should contain no more than 4 kg of C1 and minimum 2 kg of C2. Since the demand for the product is likely to be related to the price of the brick, find out graphically the minimum cost of the brick satisfying the above conditions.	1	СЗ	1	12
Q. 02	Answer the following in short: 1. What is the rule to change the direction of inequality in constraints? 2. Why slack variables are used in Simplex method? 3. What is the role of artificial variables in simplex method? 4. What is importance of +M or -M in Big M method? 5. What is advantage of Two Phase method over Big M method? 6. How to deal with unrestricted variables in Simplex method?	2	CJ	2	12
Q. 03		2	C3	2	12
Q. 04		3	С3	3,5	12
Q. 05	Describe transportation problems? What is difference between North West Corner rule and Vogel's method? In the following table supply level, demands at various destinations (P, Q and R), and the unit cost of transportation are given. Use North West Corner rule to find the initial solution. Origin	3	СЗ	3,5	12

QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH FINAL SEMESTER REGULAR EXAMINATION OF SECOND SEMESTER - SECOND YEAR 2023 OF 20 BATCH, BLE (SW)

SUBJECT: SOFTWARE DESIGN & ARCHITECTURE

Dated: 12.01,2023

Maximum Marks: 30 Time Allowed: 02 Hours,

Q.N	a.	QUESTION	aoı	Taxonomy	rio	Marks
Q. 01		Describe taxonomy of architectural styles. Briefly discuss the following architectural styles: i. Data-Centered style ii. Call and Return Style	2	C4	2	10
Q. 02		What is user interface design? Briefly discuss the user interface design process with the help of diagram. Also discuss characteristics of graphical user interfaces.	1	C2	1	10
Q. 03	(a)	What is Software component? Briefly discuss the three different views of a component.	2	C4	2	05 (
		Briefly discuss the following interaction styles: i. Direct manipulation ii. Menu selection iii. Form fill-in	2	C4	2	05