## QUAID-E-AWAM UNIVERSITY OF ENGINEERING SCIENCE & TECHNOLOGY, NAWABSHAH FINAL SEMESTER REGULAR EXAMINATION OF FIRST SEMESTER PROGRAMMING

SUBJECT: ADVANCED OBJECT OFFENTED PROGRAMMING Maximum Marks 10 Time Allowed: 02 Hours.

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

Q. No			ao	Tanamay Level	ro	Marks
Q. 01	Q. 01 (a)	Define polymorphism also define method overloading and method overriding with example in java	2	C2	2	05
	(b)	Differentiate interface and abstract class with program example.	2	CZ	2	05
Q. 02	(a)	List and define collections in java.	3	C3	3	05
	(b)	Write a program in java which stores five student names in ArrayList and print them.	3	С3	3	05
Q. 03	(a)	Write java code for the following UML diagram	4	C4	3	05
	(ь)	Define following terms:  1- Inheritance  2- Access Modifiers  3- Super keyword	2	C2	2	0:



# ENESTER REGULAR FYALLER MINISTER RING, SCIENCE & TECHNOLOGY, NAWABSHAH

# FINAL SEMESTER REGULAR EXAMINATION OF FIRST SCHOOL THRO YEAR 2023 OF 20-BATCH BS (T)

SUBJECT: IT PROJECT MANAGEMENT Dated: 12.06,2023 NOTE: ATTEMPT ALL QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS. Time Allowed: 3 Hours,

-	No.	ALL QUESTIONS CARRY EQUAL MARKS.	_			
Q. 01	(17)	Summarize the processes of Project Integration Management with their outputs and shows when they occur in a typical project.	αo	Taxonomy Level	PLO	Marks
l	1 -	Bire methodole	1	C1	1	06
Q. 02	:  (a)	Define main conte	1	C1	1	06
+	4(6)	List the methods for	2	C2	2	06
). 03_	(a)	Summarize four materials	2	C2	2	06
_ 1	(0)	Summarize four main processes and outputs involved in project cost management and shows when they occur in a typical project.  What functions can u perform with PM software?	3	CZ	3	06
2.04	(a) I	Define the following key	3	C1	3	00
	II V	ii. Emotional Intelligence iv. Earned Value Management (EVM) vi. Requirements Traceability Matrix (RTM) viii. Cost Baseline	2	C1	2	0:
	_	ACI Chart.		2 C3	2	2 0
05 (i	a) De	escribe Thamhain and Wilemon's ways: to have Influence or rojects.	n :	C2	2	2 (
h (b	) Dr	efine the five factors that play role of dysfunctioning of a team.	4	3 C2	4	2

The End





## QUAID-E-AWAM UNIVERSITY OF ENGINEERING SCIENCE & TECHNOLOGY, NAWABSHAH FINAL SEMESTER REGULAR EVALUATIVALOF FIRST SEMESTER - THIRD YELD COOK TO BATCH B.S. (T)

SUBJECT SOFTWARE REQUIREMENT ENGINEERING

Dated: 29,05,2023

Maximum Marks: 60

Line Allowed: 3 Hours.

Q. No.	OUISTION	CLO	Zene	-	
Q. 01	Discuss the following properties of requirements model?	2	Low	no	Mar
	1. Internal Consistency	-	CZ	2	12
1	2. Non-Ambiguity				
	3. External Consistency				
	4. Minimality				
	5. Completeness				
	6. Redundancy				
2. 02	techniques used to overcome the issues occurring during this phase.		C3	3	17
2. 03	How C.A.S.E is useful for requirement engineering process, justify by providing differences with Manual and automated techniques used in Requirement engineering process.		C3	3	17
. 04	Describe generic architecture for CASE tools also draw its diagram.	3	C3	3	17
05	Explain the Repository for Requirement Engineering and its functions?	3	C3	3	1

FINAL SEMESTER REGULAR EVALUATION OF ENGINEERING SCHOOL TEAR 2003 OF 20 BATCH, B.S. (IT) FINAL SEMESTER REGULAR EXAMINATION OF FIRST SENSOR STRATION

SUBJECT: SYSTEM AND NETWORK ADMINISTRATION

Lime Allowed: 3 Hours.

Dated: 01.06.2023

Q.	"	ATTEMPT ALL QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS.	امت	mal	MARK
Q. 0	-	What is a service which a typical server provide to users? Describe the principles for designing a service.		3	(12)
Q. 0	2 (	with the help of a diagram, explain the different steps involved in booting a Linux machine. Also describe the spentaneous system processes.	2	3	(06)
		b) Describe the purpose of following Linux Commands with suitable examples.  i. df  ii. du  iii. top  iv. uptime  v. ps  vi. free	,	•	(06)
Q. 03	3	<ol> <li>Write Linux commands to perform following operations:</li> <li>Create a user named Madadgar with home directory.</li> <li>Sets expiry date of above named user account to 20-06-2024.</li> <li>Create groups SNA, DBMS and Security.</li> <li>Concatenate the contents of 22IT, 21IT and 20IT files to Students file.</li> <li>Allows read permission to group only on file Students.</li> <li>Allows read and write permission to user, group and others on file Students</li> </ol>		1	(12)
. 04		What is shell scripting? Describe different shells of Linux. Write shell script to perform the following tasks:  i. Prints hostname.  ii. Prints current working directory.  iii. Creates empty files named Salary, Income and Tax.  iv. Prints odd numbers from 1 to 50.	3	•	(12
05	(a)	What is capacity planning? State the capacity planning challenges. Enlist the challenges involved in capacity planning.	st 2	3	(00
	- 1	Define the term "Monitoring" and what is the motivation behin monitoring? Describe real-time monitoring. What is the role of alertin systems in monitoring?	d 2	3	(00

## FINAL SEMESTER REGULAR EXAMPLATION OF FIRST SEMESTER - THIRD YEAR 2023 OF 20-84 CH, B.S. (IT)

Dated: 05.06,2023

SUBJECT: DATABASE SYSTEM Maximum Marks: 60

Time Allowed: 3 Hours.

## NOTE: ATTEMPT ALL

Q.N		EMPT ALL QUESTIONS. A								a	loo.	no	•
Q. 01	(a)	Given the relation with dependencies.	sample data	below,	find	all	possib	le fun	ctional	3	C2	3	•
			-			-	-	-					
		-	ent	90 E	_	*	-		-				
		MI Nury Mark	254	139 13		150	-						
		OCT from the	-	108 7		.50	154						
		201 Ondry Server	-			**	380	•					
		101 Several Shorts			, ,	30	179	•					
		270 Albest Manager	- 730	100 W	, :		700	•			-	-	-
	(b)	Describe the concept of fun	ctional deper	ndencies.						_	CZ	-	-
.02		We have a relational model dependencies given as belong RANSCRIPT (ID. Name ourseDescription, course D1: ID, courseD -> (Name ourseGrade)	w: ie, IName, rade) , IName, majo	major, or, majorl	mājoi Descriç	rDes	criptio	n. co	urseļD.				
	1	D2: fD -> fName, lName, m D3: courseID - > curseDesc D4: major -> majorDescrip : Normalize it to 2NF : Check all the relations)	ription/	1				t, nort	nalize				
	I	D3: courseID - > curseDescrip D4: major -> majorDescrip : Normalize it to 2NF : Check all the relations ) nem to 3NF.	ription/	A. Are th	ey in	3NF	7 If no			_	CZ	2	
03 (4	) (t	D3: courseID - > curseDesc D4: major -> majorDescrip : Normalize it to 2NF : Check all the relations )	ription	A. Are th	ey In	3NF	7 If no	s briefi he Rela	y. stional	1 2			

5.01	(1.)	Private 2	C	5	4
. 04	(4)	Customer ID  Custo		.2	3
	(b)	"on delete" on delete cascade" mean in SQL? What choices you have about	3	C2	:
Q. 05		In the context of large-scale databases, how does the CAP theorem describe the limitations of distributed databases?	•	C	2
	(b)	ACID properties are important principles of database technology. But NOSQL database follow BASE properties. How these set of principles differ?	1	C	2

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.S (TT)

SUBJECT: SOFTWARE REQUIREMENT ENGINEERING

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

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

Q. No.	Question	ao	Taxonomy Level	PLO	Marks
Q. 01	The requirement engineering process involve certain steps that must be followed to collect the entire specifications about the project Explain each of them briefly with suitable example?	1	CI	1	10
Q. 02	Define Requirements Engineering in the Operational Specification Model justify by providing at least one example?	1	CI	1	10
Q. 03	Explain the Framework for Requirements Engineering Processes?	2	C1, C2	2	10

The End

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

## MID-SEMESTER EXAMINATION OF FIRST SEMESTER - THIRD YEAR (5TH SEMESTER) 2023, 20-BATCH, B.S. (IT)

### SUBJECT: DATABASE SYSTEMS

Dated: 09.03.2023

CS

Maximum Marks; 20 Time Allowed; 01 Hour,

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

Q. Na.	Question							Level	PLO	Mark	
2.01	STUDENT						1	C2	2	10	
	Names	Student Number	Class	Major			•	٠,٠	-	••	
	Khalid	17	1	CS							
	Saleem	8	2	CS				1			
	COURSE										
	Course na	ime	Comme		Constitution in	Tatalan I					
		omputer Science		number S1310	Credit hours	Major					
	Data Struc	tures		\$3320	1-1-	CS					
		dathematics		TH2410	3	MATH					
	Database			\$3380	3	CS					
	i. Re	ne following quere etrieve the names lence). ert a new student,	of all s	tudents m ', 25, 1,'Mat	ajoring in 'CS' h'>, in the datal	(computer					
Q. 02	Dand and	ert a new course,	<'Knowled	ige Engine	ering', 'CS4390',	3, 'CS'>.					
2. 02	Read and	understand the EF		and answe	r the questions	:	2	C2	3	10	
			•								
	Ca	7	O4	wers	- Non-Oal	ependents					
			ğ	•	_						
		_	1		1						
		[	Division	3 8	DetailProfile						
	i. v	Vhat are the entitle	s in the E	RD7							
1		ranslate this ERD			ts. Make sure y	ou address					
		he cardinality and									
		ne and only one, o									
Q. 03		following statemow's Foot Notation		fraw the E	ntity Relationsh	ip Diagram	2	C2	3	10	
l		dodel is as below:									
		clinic must have	one or n	ore doctor	s: A doctor ma	y belong to					
l		1									
	one or more clinics.  ii. A patient may visit one or more doctors; A doctor may take one or										
	more patients.										
	A doctor may have one and only one assistant nurse; An assistant										
	nurse must work for one or more doctors.								1	1	
	line y	urse must work fo	or one or r								
	lv.	urse must work fo	ve one ar	nd only on	history record	d; A record					
	Iv. A	urse must work fo	ve one ar	nd only one one patient	history recor						

## QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH MID-SEMESTER EXAMINATION OF FIRST SEMESTER - THIRD YEAR (5TH SEMESTER) 2023, 20-BATCH, B.S (TT)

SUBJECT: ADVANCED OBJECT ORIENTED PROGRAMMING

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	ao	Taxonomy Level	PLO	Mark
Q. 01	(a)	Write differences b/w JAVA and C++.	1	C1	1	03
	(ь)	List and define at least three features of JAVA.	1	C1	1	02
Q. 02		Define Class, Object, Inheritance, Abstraction and Coupling.	1	CI	1	05
Q. 03		Write JAVA code for the following UML diagram.  Assess  Assess	2	C1	1	05

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

## MID-SEMESTER EXAMINATION OF FIRST SEMESTER - THIRD YEAR (5™ SEMESTER) 2023, 20-BATCH, B.S (IT)

### SUBJECT: SYSTEM AND NETWORK ADMINISTRATION

Dated: 08.03.2023

Maximum Marks: 20

Time Allowed: 1 Hour,

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

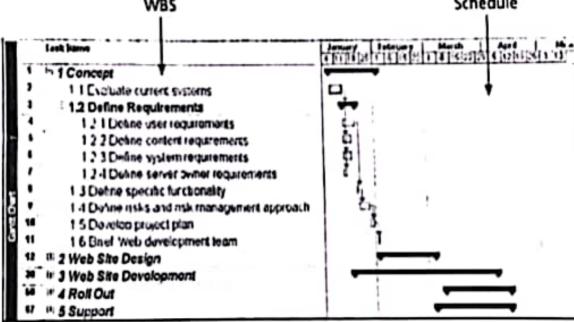
	Question	cıo	Taxonomy Level	PLO
Q. 01	What is system administration? Discuss the role and responsibilities of a system administrator. Define the responsibilities of following administrators:  i) Database Administrator  ii) Network Administrator  iii) Web Administrator		1	2
Q. 02	What are the requirements of a good system administrator? Why documentation is important for a system administrator? Discuss in brief the internal wiki and request / ticketing systems.	1	1	2
Q. 03	Being a system administrator, enlist your responsibilities with respect to user account management, hardware management and backup policies.	1	1	2

#### 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.S (IT)

SUBJECT: IT PROJECT MANAGEMENT

Dated: 13.03.2023 Time Allowed: 01 Hour, Maximum Marks: 20 NOTE: ATTEMPT ANY TWO (02) QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS. Q. 01 Define project management. Illustrate project management framework. 07 (a) (b) Why Should IT students should study project management? How this course helps 03 you in professional life or career. Q. 02 07 (a) Map project management process groups to knowledge areas (Briefly describe what happens in each of the 5 PM process groups). 03 (b) Describe different methods of requirement collection. Q. 03 05 (a) Convert the following diagram of "intranet Project" from tabular format with PMI numbering (Gant Chart view) to flow chart format. Schedule WBS Leet kan 1 Concept



(b) Draw template of "Kick of meeting agenda".

Good Luck