UNIVERSITY OF THE PUNJAB



<u>B.A. / B.Sc. Part-II</u> Annual Exam - 2017

	Roll	No.	 	 	
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Subject: Computer Studies-II

PAPER: A (Database Managt Systems, System & Network Adminst.)

TIME ALLOWED: 3 hrs. MAX. MARKS: 70

Note: <u>Attempt THRE</u> I	questions from Part	and THREE question	ons from Part II					
A	oase Management Syst	ems) Max	Marks: 35					
Note: 1:-Question 1 in part-I is compulsory. 2:-Attempt any TWO questions from the remaining questions in part-I								
Q1) Choose the most a the provided answer s whole Answer). (Mark	heet. (<u>Please write onl</u>	the following statemory correct options, no	ents and write on need to write					
1) Which SQL statemen	nt is used to manipulate	data in a database?						
A). UPDATE B). SAVE AS		C). MODIFY D). SAVE						
2) Rows of a relation in A) Tuples	B) a Relation row	C) a data structure						
A). It includes no p B). It includes no to C). It is in first non	normal form (2NF) if: artial dependencies. ransitive dependencies. mal form (1NF) and it is mal form (1NF) and it is	ncludes no partial depo ncludes no transitive d	endencies. lependencies					
A). Functional deperB). Partial depender	ncy	C). Transitive dependencyD). Primary key dependency						
5) In an E-R diagram re	lationship is represented	i by						
	•	the second secon) Ellipse					
6) A person, place, objeorganization wishes to								
A). Attribute.B). Data element.C). Relationship.		D). Entity. E). Process.						
7) BCNF stands for: A). Biased-Code N B). Base-Coded N C). Boyce-Codd N D). Base-Conversion	ormal Form ormal Form ormal Form							
8) Which SQL statem	ent is used to delete data	a from a database?						
A) ALTER	B) DELETE	C) REMOVE	D) CANCEL					
value of the column "F A) SELECT [all] F B) SELECT * FRO C) SELECT [all] F	you select all the recor FirstName" is "UMAR"(FROM Persons WHERE OM Persons WHERE FI FROM Persons WHERE OM Persons WHERE FI	? E FirstName=' UMAR irstName LIKE ' UMA E FirstName LIKE ' UN	, R '					
10) Pick the relationsh	ip from the following:	•						
A) a classroom	B) Teacher C) At	ttends D) Cost per	dozen					
Road Tour Bus Com	, attributes and relatio pany. Use the followin ed) (Marks:3.5+9=12.:	g requirements and t	E-R Model for the ake your own					
particular route, although a number of	Company owns a numbough some routes may towns. One or more dra journey through some	y have several busse ivers are allocated to	s. Each route passes each stage of a route,					

towns have a garage where busses are kept and each of the busses are identified by the registration number and can carry different numbers of passengers, since the vehicles vary in size and can be single or double-decked. Each route is identified by a route number and information is available on the average number of passengers carried per day for each route. Drivers have an employee number, name, address, and sometimes a

Q3) (a) Write a note on Client-Server Database Applications. (Marks:6)

(b) Define database and also discuss advantages of database processing systems.

telephone number.

(Marks:6.5)

Q4) (a) Write SQL Statement:

(Marks:6)

Which Create the following table Employee
Which insert the following given data in Employee Table
Which display average salary of employees? ii.

iii.

Employee

Emp Name Address Salary

Viscoem Quetta 35000 Imran Islamabad 45000

	Khurram	Karachi	30000]:						
(b) Define database key? And also discuss different types of database keys with examples. (Marks:6.5)										
Part-II (Operating Systems and Networks) Note: 1:-Question 5 in part-II is compulsory.										
2:-Attempt any TWO questions from the remaining questions in part-II Q5) Choose the most appropriate option for the following statements and write on the provided answer sheet. (Please write only correct options, no need to write whole Answer). (Marks:10)										
1) The short term process scheduler is also called										
A) Swapper										
2) A cable break in a topology stops all transmission.										
A) Mesh	B) Bus	C) Star	D) Primary							
3) A process is that set of instructions brought to life, a dynamic entity performing actions as prescribed by the code.										
A) True	B) False	C) Statement	is not clear							
4) On interactive systems, the average time it takes the system to start responding to user inputs is called										
A) Response time	B) Turnaround	1 time	C) Wait time	D) None of them						
5) Round Robin (RR) is preemptive process scheduling algorithm.										
A) True B) False C) Statement is not clear 6) Which topology features a point-to-point line configuration?										
A) Mesh B) Ring C) Star D) All of them										
7) In the	layer, the da	ata unit is call	ed a frame.							
A) Physical	B) Data link	C) N	etwork	D) Transport						
8) Asequence of instruction	process is one executed by	one that share another proc	s information v	vith or controls the						
A) Shared	B) Integrating	C) Co	ooperating	D) Binding						
9) Dialog control is a function of thelayer.										
A) Transport	B) Session	C) Pr	esentation	D) Application						
10) Shortest Job First (SJF) is non-preemptive process scheduling algorithm										
A) True B) False C) Statement is not clear										
Q6) Define the following: (Marks:12.5) Thread Heavy weight Process Light weight Process										
SwapperDispatcher										
Q7) (a) Discuss Briefly Operating System Kernel. (Marks:6.5)										

- (b) What is a Process and also discuss different states of Process. (Marks:6)
- Q8) Discuss briefly Functions of Data Link and Presentation Layer of OSI Model. (Marks:6+6.5= 12.5)