Name: - Adityo Gupta Moll No: - 2213000094

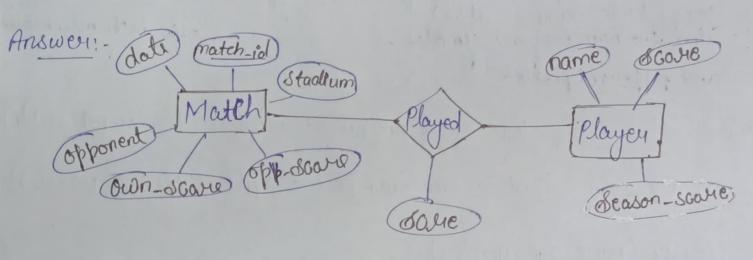
Class Roll No: -47 (B)

unia une

Sub: - DBMS

Assignmen-1 (det-4)

Quess: Design an EX Diagnom for keeping _____ modeled asdervived attributes.



E-R Diagram for forouvite team statistic

Ques 2! - Consider a database with the following ochema:

Person (nome, age, genden)

friequent (name, fizzeria)

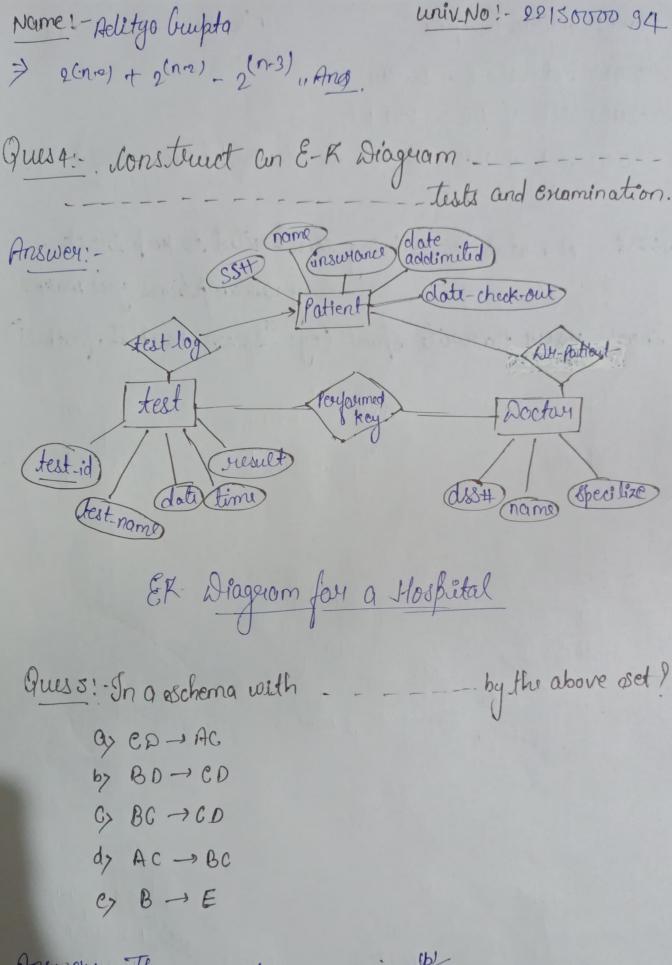
Fats (name, fizza)

Serves (pizzeria, fizza, prieco)

name is key (name, pizza) is a key (name, pizza) is a key (pizzelija, pizza) is a key

Name: Aditye Gupta	univ No1-22/3000094
quevies:	pression for the following
(a) find all	under the age of 18.
Enswer! - Mpizzenia (o age x18 (Pers	on) M (suguents)
b) Find all the name of	mushroom ou pepperoni (ou both).
Answer: - Thame (gender = female AND	(pizza = "mushroom" an pizza =
'peproni' ('person M Eats)).
Person Iname, age, gender), frequents Serves (Pizzeria, pizza, pluce) C). Find the names of all females	(name, pizzeria), Eats (name, pizzo
and pepperoni pizza.	
Inswer: Thame (gender= femali AND p	220 = 6 mushroom' (Person DX Eats))1
	aizza = "pepperoni" (person M Eats)
leuson (name, age, gendeu)	
frequents (name, pizzeria)	
Eats (nome, pizza)	
serves (pizzeria, pizza, price).	
Ques 3! - Let a Kelation K	number of super
Keys ?	
Answer: - Super key of (a,a2) + (Buper key of (a,a2))	Buben key of (a,a3)-
9 (414243)	

(



Answer: The coverect answer is >BD -> GD classon det of GD = AB-ACBDE

univ_NO:-22/5 000094 Names - Aditye Gupta closure set of BC = ECDAB

Closure set of AC = BCDAE Closure set of BD = Connat be derived from set of FD's. Ques 6:- A Database is being constructed to keep track ---- any cassumptions you make. choose your ferouvite sport (eg: "Soccur, baseball, football) Promo Rlaysfur I Team Nome N Rune Fring some Home

univ-No:-22/5000094 Name: - Aditya Guepta Questi- Consider the E-K Dagram. into a sulational schema. aclution Tables we have :-4) Doctar (Imp-id, Name, Extn) > Paitent (Paitent-id, Name, & DOB) 3> word (Nome) 4) Deug (1), Kecs, Joseger) 5> bedrame () S) Nurse (Name, Emp-id) 7) Diagnose (Patient-id, Emp-id) B) Admitted -in (Patient-id, Name) 9> Managed by (Nome, Emp-1d) 10) Base Loe (Nome, Emp-id) 11) Truatment (Patient -id, Emp-if, Time, date) Quest: Let K (A,B,G,D,E) __ - Ouper Keys. Answor: Given, K(A1B,G,D,E) functional dependencies: AB -> C, C-D, B-E

(a) CK = AB (Candidate key) (: AB = (ABCDE))

Number of Candidate key = 1.

Name:-Aditya burkta

univ No!-22150000 94

b) Obuper key = AB, ABC, ABO, ABE, ABCD, ABCE, ABCDE, ABCDE,

Number of Super key = 8.