Started on	Friday, 19 April 2024, 11:28 PM
State	Finished
Completed on	Friday, 19 April 2024, 11:48 PM
Time taken	19 mins 58 secs
Marks	18.00/20.00
Grade	9.00 out of 10.00 (90%)
Question 1 Complete Mark 2.00 out of 2.00	

Relation R has eight attributes ABCDEFGH. Fields of R contain only atomic values. $F = \{CH \rightarrow G, A \rightarrow BC, B \rightarrow CFH, E \rightarrow A, F \rightarrow EG\}$ is a set of functional dependencies (FDs) so that F+ is exactly the set of FDs that hold for R. How many candidate keys does the relation R have?

- A. 3
- B. 6
- © C. 4
- O. 5

The correct answer is: 4

Question 2

Complete

Mark 2.00 out of 2.00

The relation scheme Student Performance (name, courseNo, rollNo, grade) has the following functional dependencies:

name, courseNo \rightarrow grade rollNo, courseNo \rightarrow grade name \rightarrow rollNo rollNo \rightarrow name

The highest normal form of this relation scheme is

- A. BCNF
- B. 3 NF
- C. 4 NF
- D. 2 NF

The correct answer is: 3 NF

C	
Complete Mark 2.00 ou	t of 2 00
In RDBM	S, different classes of relations are created usingtechnique to prevent modification anomalies.
○ A.	Data integrity
О В.	Referential integrity
C.	Normal Forms
O D.	Functional Dependencies
The corre	ect answer is: Normal Forms
Question 4	
Complete	
Mark 2.00 ou	t of 2.00
	not used for cases where a relation has Two (or more) candidate keys
O A.	Two (or more) candidate keys
○ A.● B.	Two (or more) candidate keys Two mutually exclusive foreign keys
A.B.C.	Two (or more) candidate keys Two mutually exclusive foreign keys The candidate key overlap
A.B.C.	Two (or more) candidate keys Two mutually exclusive foreign keys
A.B.C.D.	Two (or more) candidate keys Two mutually exclusive foreign keys The candidate key overlap
A.B.C.D.	Two (or more) candidate keys Two mutually exclusive foreign keys The candidate key overlap Two candidate keys and composite
A. B. C. D.	Two (or more) candidate keys Two mutually exclusive foreign keys The candidate key overlap Two candidate keys and composite ect answer is: Two mutually exclusive foreign keys
A. B. C. D.	Two (or more) candidate keys Two mutually exclusive foreign keys The candidate key overlap Two candidate keys and composite ect answer is: Two mutually exclusive foreign keys
A. B. C. D.	Two (or more) candidate keys Two mutually exclusive foreign keys The candidate key overlap Two candidate keys and composite ect answer is: Two mutually exclusive foreign keys
A. B. C. D. The correct Question 5 Complete Mark 2.00 ou Let R = A	Two (or more) candidate keys Two mutually exclusive foreign keys The candidate key overlap Two candidate keys and composite ect answer is: Two mutually exclusive foreign keys
A. B. C. D. The correct Question 5 Complete Mark 2.00 ou Let R = A	Two (or more) candidate keys Two mutually exclusive foreign keys The candidate key overlap Two candidate keys and composite extranswer is: Two mutually exclusive foreign keys tof 2.00 BCDE is a relational scheme with functional dependency set F = {A → B, B → C, AC → D}. The attribute closures of A and E are ABCD, E
A. B. C. D. The correct Question 5 Complete Mark 2.00 ou Let R = A A. B.	Two (or more) candidate keys Two mutually exclusive foreign keys The candidate key overlap Two candidate keys and composite extranswer is: Two mutually exclusive foreign keys tof 2.00 BCDE is a relational scheme with functional dependency set F = {A → B, B → C, AC → D}. The attribute closures of A and E are ABCD, E

The correct answer is: ABCD, E

https://cetpgex.iitp.ac.in/moodle/mod/quiz/review.php?attempt=9251&cmid=496

Complete	
Mark 0.00 out	:0f2.00
Consider	the relation R (ABCDE): FD = { A \rightarrow B, B \rightarrow C, C \rightarrow D, D \rightarrow E} Find out the highest normal form.
○ A.	2 NF
○ В.	1 NF
C.	3 NF
O D.	BCNF
The corre	ct answer is: 2 NF
Question 7	
Complete	
Mark 2.00 out	of2.00
B.	Every relation in 3NF is also in BCNF Every relation in BCNF is also in 3NF No relation can be in both BCNF and 3NF
O D.	A relation R is in 3NF if every non-prime attribute of R is fully functionally dependent on every key of R
The corre	ct answer is: Every relation in BCNF is also in 3NF
Question 8	
Question 8	

7.55 T W	Quiz-o. Attempt to view OE1
Question 9	
Complete	
Mark 2.00 oı	utof2.00
Conside	er a relational table R that is in 3NF, but not in BCNF. Which one of the following statements is TRUE?
○ A.	A cell in R holds a set instead of an atomic value
B.	R has a nontrivial functional dependency $X \rightarrow A$, where X is not a superkey and A is a prime attribute
○ C.	R has a nontrivial functional dependency $X \rightarrow A$, where X is not a superkey and A is a non-prime attribute and X is a proper subset of some key
O D.	R has a nontrivial functional dependency $X \rightarrow A$, where X is not a superkey and A is a non-prime attribute and X is not a proper subset of any key
The corr	ect answer is: R has a nontrivial functional dependency X→A, where X is not a superkey and A is a prime attribute
Question 10	
Complete	
Mark 2.00 oı	utof2.00
Let D (A	B, C, D, E, P, G) be a relational schema in which the following functional dependencies are known to hold: AB \rightarrow CD, DE \rightarrow P, C \rightarrow E, I
	is, c, b, c, r, g) be a relational schema in which the following functional dependencies are known to hold. Ab $ ightharpoonup cb$, be $ ightharpoonup r$, c $ ightharpoonup c$, is
A.	not in 2NF
О В.	in BCNF
O C.	in 3NF, but not in BCNF

The correct answer is: not in 2NF

D. in 2NF, but not in 3NF