CS354: Problem Set 1

Deadline: 1st September 2020 Submission Filename: CS354_ps1.txt

Q1. What are the differences between cardinality and participation commore powerful)?	nstraint? Which o	one is better (i.e.
Q2. What are the differences between Primary key constraint and Uniq	ue constraint?	1M
Q3. Explain the concepts of a Primary key and Foreign Key.	1M	
Q4. What integrity rules exist in the DBMS?	1M	
Q5. A row in a table is also referred to as a	1M	
a) Attribute b) Tuple c) Field d) Instance		
Q6. The term attribute refers to a of a table.	1M	
a) Record b) Column c) Tuple d) Key		
Q7. For each attribute of a relation, there is a set of permitted values, c	alled the	of that
attribute.	1M	
a) Domain b) Relation c) Set d) Schema		
Q8. A Database is the logical design of the database, and t snapshot of the data in the database at a given instant in time. 1M	he database	which is a
a) Instance, Schema b) Relation, Schema c) Relation, Domain d) Schema, Instance		

Q9. Course (course_id, sec_id, semester)	1M
Here the course_id, sec_id and semester are	and Course is a
a) Relations, Attributeb) Attributes, Relationc) Tuple, Relationd) Tuple, Attributes	
Q10. The tuples of a relation can be of order.	1M
a) Any b) Same c) Sorted d) Constant	
Q11. Explain 'Referential Integrity' with an example.	2+1 = 3M
Q12. During the decision of a logical schema, a user mustructures used for the storage of the data. (True/False)	
Q13. Two entity sets cannot have multiple relationships attributes. (True/False)	, but any relationship set can have multiple 1M
Q14. What are composite attributes? Give one example composite multi-valued attributes along with their sub a	
Q15. What are Weak entity sets? How are they depende key?	ent on other entities in terms of attributes and 1+1=2M
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