

AMIETE – CS/IT (OLD SCHEME)

Time: 3 Hours

OCTOBER 2012

Max. Marks: 100

PLEASE WRITE YOUR ROLL NO. AT THE SPACE PROVIDED ON EACH PAGE IMMEDIATELY AFTER RECEIVING THE QUESTION PAPER.

NOTE: There are 9 Questions in all.

- Question 1 is compulsory and carries 20 marks. Answer to Q.1 must be written in the space provided for it in the answer book supplied and nowhere else.
- The answer sheet for the Q.1 will be collected by the invigilator after 45 minutes of the commencement of the examination.
- Out of the remaining EIGHT Questions answer any FIVE Questions. Each question carries 16 marks.
- Any required data not explicitly given, may be suitably assumed and stated.

Q.1 Choose the correct or the best alternative in the following: (2×10)

- a. A schema describes

(A) Record Relationship	(B) Data Elements
(C) Record and files	(D) All of the above
- b. An abstraction concept for building composite objects from their component object is called _____.

(A) specialization	(B) normalization
(C) generalization	(D) aggregation
- c. Which of the following is not a valid aggregation function in SQL?

(A) avg	(B) min
(C) where	(D) sum
- d. Which of the following is not a valid operation in the relational algebra?

(A) select	(B) min
(C) project	(D) rename
- e. 4NF is designed to cope with

(A) transitive dependency	(B) join dependency
(C) multi valued dependency	(D) none of these
- f. Which one is lowest level data model?

(A) physical data model	(B) logical data model
(C) external data model	(D) None of the above
- g. An alias is :

(A) An alternate name given to a relation
(B) An alternate name given to an inner query
(C) An alternate name given to a user
(D) None of the above

