

[702A-3] SEAT No. _____

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Sardar Patel University

SYBCA (3rd Sem) (CBCS) External Examination- Dec-2020

US03CBCA21|| Database Management System-2

Date: 31/12/2020

Total Marks:70

Time: 2:00 to 4:00 pm

Q.1 Answer the following questions. [10]

- 1 Every time attribute A appears, it is matched with the same value of attribute B, but not the same value of attribute C. Therefore, it is true that:
(a) $A \rightarrow B$ (b) $A \rightarrow C$ (c) $A \rightarrow (B, C)$ (d) $(B, C) \rightarrow A$
- 2 Which of the following is not an anomaly?
(a) Insert (b) update (c) delete (d) index
- 3 The ___ attributes is used to declare a variables based on definition of columns in a table.
(a) %type (b) %rowtype (c) %row (d) %rowid
- 4 The ___ statement changes the flow of control within PL/SQL block.
(a) End loop (b) end (c) repeat (d) goto
- 5 ___ exception is raised when the data type or data size is invalid.
(a) Program_error (b) value_error (c) type_invalid (d) none of these
- 6 Data stored in a cursor is known as _____.
(a) Current data set (b) Active data set (c) implicit cursor (d) none of these
- 7 Fetch statement retrieves _____ rows at a time.
(a) three (b) two (c) one (d) four
- 8 A _____ can must have return statement.
(a) Procedure (b) trigger (c) function (d) none of these
- 9 _____ type of parameter used to send values to stored procedures.
(a) Out (b) in out (c) in (d) none of these
- 10 Procedure are stored in _____.
(a) SGA (b) client machine (c) Oracle Database (d) None of these

Q.2 Fill in the blanks and True/False. [08]

- 1 _____ normal form identifies transitive dependencies
- 2 A _____ is an oracle object, which holds other objects in it.
- 3 _____ exception is raised when the PL.SQL has internal problem.
- 4 A _____ is Execute automatically when an associated DML statement is executed.
- 5 In PL/SQL, Code blocks start with an exception Section.(True/False)
- 6 The error occurred during the compilation of procedure are stored in dual table.
(True/False)
- 7 Explicit Cursor can be declared by user for the queries that return more than one row. (True/ False)
- 8 A relation is said to be in BCNF when it has overlapping composite keys.
(True/False)

[15]

(P.T.O.)

Q.3 Explain following in brief. (Attempt any Ten)

[20]

- 1 List out the consequences of poor database design.
- 2 List out any four codd rules.
- 3 What is the need of normalization?
- 4 Draw PL/SQL block structure.
- 5 Explain sequential control in brief.
- 6 Write Advantages of PL/SQL.
- 7 Explain SELECT...INTO statement available in PL/SQL.
- 8 Explain in brief: SQLERRM
- 9 Differentiate between Implicit cursor and explicit cursor.
- 10 List types of trigger.
- 11 What is Package? List part of package.
- 12 List out the parameter of Procedure.

Q.4 Explain the following in detail. (Attempt any Four)

[32]

- 1 Explain Functional dependencies And Consequences of poor database design.
- 2 What is Normalization? Explain 1st normal form, 2nd normal form and 3rd normal form with example.
- 3 List and explain conditional control with syntax and example.
- 4 List and explain Iterative control with syntax and example.
- 5 What is cursor? List Explicit cursor attributes. Also explain Open, fetch and close statement with syntax and example.
- 6 What is an exception? Write note on pre-determined internal PL/SQL exceptions with example.
- 7 Explain PL/SQL package with syntax and Example.
- 8 Explain stored Function and stored Procedure with syntax and example.

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[2]