B.Sc.IT: Semester – III [Advanced SQL]
Question Paper (Apr – 2014) [Revised Course]

- Kamal T.

Time: 3 Hours **Total Marks: 100**

N.B.: (1) All Questions are Compulsory.
(2) Figure on right indicate maximum marks.

Q.1 Attempt Both The Question: (10 Marks)

(A)	Write differences between procedure and function.	**(5)**
(B)	Write a program using PL/SQL to calculate factorial of number entered by user.	**(5)**

Q.2 Attempt Any Three From The Following: (15 Marks)

(A)	What are joins? Explain left join and right join with example.	**(5)**
(B)	What are aggregate functions? How are they used? Explain with example.	**(5)**
(C)	Explain different types of constraints in SQL.	**(5)**
(D)	What is View? What are the advantages of view?	**(5)**

Q.3 Attempt Any Three From The Following: (15 Marks)

(A)	What is a privilege? Explain the different types of privileges.	**(5)**
(B)	What is correlated subquery? Explain with suitable example.	**(5)**
(C)	Explain set operators with example.	**(5)**
(D)	Explain roll up and cube operators with syntax and example.	**(5)**

Q.4 Attempt Any Three From The Following: (15 Marks)

(A)	What is transaction? Explain ROLLBACK, COMMIT and SAVEPOINT in transaction.	**(5)**
(B)	Explain PL.SQL Block Structure.	**(5)**
(C)	Explain with example the %TYPE attribute.	**(5)**
(D)	How you can create and Display Bind Variables? Explain.	**(5)**

Q.5 Attempt Any Three From The Following: (15 Marks)

(A)	Write a PL/SQL program to insert 3 new location_id for the country code 'IND' and city 'Mumbai' using For…loop in Locations table. (Location: location_id, City, Country_code).	**(5)**
(B)	Explain %ROWTYPE attribute with example.	**(5)**
(C)	Explain IF-THEN-ELSE statement in PL/SQL with example.	**(5)**
(D)	What are Cursors? Explain the classification of cursors.	**(5)**

Mumbai B.Sc.IT Study

B.Sc.IT: Semester – III [Advanced SQL]
Question Paper (Apr – 2014) [Revised Course]

- Kamal T.

Q.6	**Attempt Any Three From The Following: (15 Marks)**	
(A)	What is Stored Procedure? How to create and call stored procedure?	**(5)**
(B)	What are advantages of using stored functions?	**(5)**
(C)	What is a packages? How to create a package specification?	**(5)**
(D)	What are stored functions? Write its creation and calling example.	**(5)**

Q.7	**Attempt Any Three From The Following: (15 Marks)**	
(A)	Write short note on Dynamic SQL.	**(5)**
(B)	Create a trigger to restrict insert into the employee table to certain business hours, (8.00-18.00), Monday through Friday.	**(5)**
(C)	Define triggers. Explain types of triggers.	**(5)**
(D)	Differentiate between BEFORE and AFTER Triggers.	**(5)**

Mumbai B.Sc.IT Study