



<b>MODULE NAME:</b>	<b>MODULE CODE:</b>
<b>ADVANCED DATABASES</b>	<b>ADDB7311</b>

<b>ASSESSMENT TYPE:</b>	<b>EXAMINATION (PAPER ONLY)</b>
<b>TOTAL MARK ALLOCATION:</b>	<b>50 MARKS</b>
<b>TOTAL HOURS:</b>	<b>1 HOUR (+5 minutes reading time)</b>
<b>STUDENT NAME:</b>	
<b>STUDENT NUMBER:</b>	
<b>INSTRUCTIONS:</b> <ol style="list-style-type: none"> <li>1. Please adhere to all instructions in the assessment booklet.</li> <li>2. Independent work is required.</li> <li>3. Five minutes per hour of the assessment to a maximum of 15 minutes is dedicated to reading time before the start of the assessment. You may make notes on your question paper, but not in your answer sheet. Calculators may not be used during reading time.</li> <li>4. You may not leave the assessment venue during reading time, or during the first hour or during the last 15 minutes of the assessment.</li> <li>5. Ensure that your name is on all pieces of paper or books that you will be submitting. Submit all the pages of this assessment's question paper as well as your answer script.</li> <li>6. Answer all the questions on the answer sheets or in answer booklets provided. The phrase 'END OF PAPER' will appear after the final set question of this assessment.</li> <li>7. Remember to work at a steady pace so that you are able to complete the assessment within the allocated time. Use the mark allocation as a guideline as to how much time to spend on each section.</li> </ol>	
<b>Additional instructions:</b> <ol style="list-style-type: none"> <li>1. This is a CLOSED BOOK assessment.</li> <li>2. Calculators are not allowed.</li> <li>3. Answer All Questions.</li> <li>4. This is the closed book section of the assessment. Once you have completed the closed book section of the assessment, submit it and collect the open book section, together with the allowed sources of information.</li> </ol>	

**Question 1****(Marks: 10)**

Discuss how databases have definite advantages over manual data processing systems.

**Question 2****(Marks: 10)**

<b>Q.2.1</b>	Users are provided with two types of privileges in Oracle 11g. Discuss these two privileges and explain what these privileges enable a user to perform.	(8)
--------------	---	-----

<b>Q.2.2</b>	SQL*Plus is an Oracle-developed application with a command line interface to submit SQL statements. Discuss two advantages of using this application.	(2)
--------------	---	-----

**Question 3****(Marks: 15)**

Consider the following PL/SQL query:

```
SET SERVEROUTPUT ON
DECLARE
V_order_id number(3);
V_order_qty number(3);
BEGIN
SELECT order_id, quantity into V_order_id, V_order_qty FROM tblOrders;
dbms_output.put_line(V_order_id || ' ' || V_order_qty);
END;
```

<b>Q.3.1</b>	Change the code to include an explicit cursor so that a number of rows can be accessed. In your answer make use of a loop and the four steps involved in accessing an explicit cursor.	(15)
--------------	--	------

**Question 4****(Marks: 10)**

A subprogram is a program that has a declarative part, an executable part and an optional exception-handling part. Discuss the benefits of using subprograms.

**Question 5****(Marks: 5)**

Triggers are special PL/SQL program units that are stored in a database, and executed in response to certain events. Discuss the three trigger types available in Oracle.

**END OF PAPER**