



**Tshwane University
of Technology**

We empower people

YEAR: 2013
EXAMINATION: August Exit

SUBJECT NAME:

DEVELOPMENT SOFTWARE IIB / FINANCIAL INFORMATION SYSTEMS II B

SUBJECT CODE:

DSO23BT/SFW20BT

QUALIFICATION(S):

BTech: IT: Technical Applications (BTIL05);
BTech: IT: Business Applications (BTIBO5);
BTech: IT: Software Development (NDSO4);
BTech: IT: Financial Information Systems (NDFI07)

PAPER DESCRIPTION: Closed Book

DURATION: 4 Hrs

PAPER: Only

SPECIAL REQUIREMENTS

- | | |
|--------------------------|------------------------------------|
| <input type="checkbox"/> | NONE |
| <input type="checkbox"/> | NON-PROGRAMMABLE POCKET CALCULATOR |
| <input type="checkbox"/> | SCIENTIFIC CALCULATOR |
| <input type="checkbox"/> | COMPUTER ANSWER SHEET |
| <input type="checkbox"/> | GRAPH PAPER |
| <input type="checkbox"/> | DRAWING INSTRUMENTS |

OTHER:

INSTRUCTIONS TO CANDIDATES: Select one

TOTAL NUMBER OF PAGES INCLUDING COVER PAGE:

3

TOTAL NUMBER OF ANNEXURES:

None

EXAMINER: SK Mogapi

FULL MARKS: 85

MODERATOR: TE Madzunya

TOTAL MARKS: 100

Question1

[9]

Write a PL/SQL block that will prompt the user to input his salary (per annum). A message must be displayed back to the user indicating his current monthly salary and his envisaged monthly salary for the following year, after a 15% annual increase.

Eg.

Your monthly salary is R25000 and your next years salary will be R27500

Question 2

[20]

Kaleidoscope book shop from time to time need to know how many copies of a certain book has been sold.

Declare a table of type NUMBER(4).

Declare a cursor that receives one parameter (the ISBN number as supplied by the user). The cursor must retrieve all records from the BK_ORDERITEMS table with this ISBN number.

Using a basic loop, read through the cursor, storing the QUANTITY sold in consecutive elements of the table. Use a counter to determine the number of items stored in the table. Then use a for loop to read through the table, finding the sum of all the elements. Display the sum.

i.e.

Enter value for i_isbn: 8843172113

old 12: OPEN C_ITEMS(&I_ISBN);

new 12: OPEN C_ITEMS(8843172113);

We sold: 7 of the book

PL/SQL procedure successfully completed

Question 3

[12]

Write a PL/SQL block to retrieve books from the BK_BOOKS table based on a PUBID. If the PUBID returns more than one row, handle the exception with the appropriate **oracle pre-defined** handler and display the message **'More than one book from that publisher'**. If the PUBID returns no books, handle the exception with the appropriate **oracle pre-defined** handler and display the message **'We do not have any books from that publisher'**. If the PUBID returns one book, then display the book's TITLE and CATEGORY.

Question 4

[22]

Kaleidoscope book shop decided that they are going to have a sale for all the books that cost R20,00 or more.

4.1 Create a function that will tell the user how many of their books qualify to be on sale (cost R20,00 or more). **(9)**

4.2 Create a procedure to decrease the RETAIL price of all the books that cost R20.00 or more, by 10%. Use a cursor with a FOR UPDATE clause to decrease and display the new retail prices accordingly. **(13)**