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SUBJECT NAME: SUBJECT CODE: QUALIFICATION(S):		Development Software IIB/Software Skills IIB									
		DSO23BT/SFW20BT									
		ND: Business Informatics ND: Software Engineering ND: Cost and Management Accounting ND Technical Programming									
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INSTRUCTIO	NS TO CA	ANDIDATES:	Answer	all questions						<u>~</u>	
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EXAMINER: Mr. G.O. Leroke FULL MARKS: 100

MODERATOR: Mr S.K. Mogapi TOTAL MARKS: 100

Question 1 [11]

1.1 Write a PL/SQL block that will display the number, asterisk '*' resembling the number, the spelled out number and it should indicate if the number is odd or even. Use any type of loop.

```
Run SQL Command Line

1*one Odd Number
2**tvo Even Number
3****three Odd Number
4****four Even Number
5******sive Odd Number
6*****six Even Number
7******seven Odd Number
8*******nine Odd Number
10******nine Odd Number
10*******ten Even Number
```

Question 2 [12]

2.1 Write a PL/SQL block that prompts user for a shape then must calculate the area of the entered shape. Use a case statement to select the correct formula and ensure the use of only bind variables.

Shape	Area Formula		
Triangle	Length * width * half		
Rectangle	Length * width		
Any other shape	INVALID SHAPE		

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Question 3 [27]

3.1 Create a record wot_record that has the following flieds:

Department name

Employee initials: first and last letters of first name

Task description

Material and Equipment costs

Labor days

Initialize work order task id to 2.

Create a user-defined exception that will be raised if a user uses a non-existent work order task id. Format display like below:

Question 4 [19]

4.1 Create a cursor called project cursor; the cursor must store the project name, work order description, surname and first name, for both employees that approved and were assigned the work orders. Test if cursor is open. Make provision for the following predefined errors:

Error	Message
Cursor already open	Cursor already opened
Invalid cursor	Illegal cursor operation occurred
Row type mismatch	Host variable and PL/SQL cursor variable involved in an assignment have incompatible return types

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```
Run SQL Command Line

Project: Build 345 kv substation 3467 work order: Sub 3467 - Construct Equipment of Proposed By: TYSON STELIA has a substation 3467 work order: Sub 3467 - Construct Equipment of Proposed By: TYSON STELIA has a substation of the front North Bend to Proposed By: TYSON STELIA has a substation of the front North Bend to Proposed By: Palits in Marines work order: Sub 3467 work order: Sub 3467 work order: Sub 3467 - Construct Build for the form of the first of the f
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Question 5 [31]

5.1 Create a function that will return the total costs for a work order task which is the sum of the material and equipment cost.(6)

5.2 Create a procedure that will retrieve work order task description, task descriptions, department name and account description. Ensure that the above function is called and its results are displayed. Make provision for the following errors: (17)

Error	Message
No data found	Work order task id does not exist
To many rows	Duplication of Work order task id
Others	Invalid Input

5.3 Execute the procedure without using a pl/sql block.

(8)

