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## Question: 1

What can you do with the DBMS\_LOB package?

- A. Use the DBMS LOB.WRITE procedure to write data to a BFILE.
- B. Use the DBMS\_LOB.BFILENAME function to locate an external BFILE.
- C. Use the DBMS LOB.FILEEXISTS function to find the location of a BFILE.
- D. Use the DBMS\_LOB.FILECLOSE procedure to close the file being accessed.

## Answer: D

## Question: 2

Examine this procedure:

```
CREATE OR REPLACE PROCEDURE ADD_PLAYER (V_ID IN NUMBER, V_LAST_NAME VARCHAR2) IS

BEGIN
INSERT INTO PLAYER (ID,LAST_NAME)
VALUES (V_ID, V_LAST_NAME);
COMMIT;
END:
```

This procedure must invoke the UPD\_BAT\_STAT procedure and pass a parameter. Which statement, when added to the above procedure, will successfully invoke the UPD\_BAT\_STAT procedure?

- A. EXECUTE UPD BAT STAT(V ID);
- B. UPD\_BAT\_STAT(V\_ID);
- C. RUN UPD\_BAT\_STAT(V\_ID);
- D. START UPD\_BAT\_STAT(V\_ID);

## **Answer: B**

# **Question: 3**

Which three describe a stored procedure? (Choose three.)

- A. A stored procedure is typically written in SQL.
- B. By default, a stored procedure executes with the privileges of its owner.
- C. A stored procedure has three parts: the specification, the body, and the exception handler part.
- D. A stored procedure is stored in the database and can be shared by a number of programs.
- E. A stored procedure offers some advantages over a standalone SQL statement, such as programmable functionality and compiled code.

# Answer: B, D, E

#### Question: 4

Examine this package:

CREATE OR REPLACE PACKAGE pack\_cur IS CURSOR c1 IS SELECT prodid FROM product ORDER BY prodid DESC; PROCEDURE proc1; PROCEDURE proc2; END pack\_cur; / CREATE OR REPLACE PACKAGE BODY pack\_cur IS v\_prodid NUMBER; PROCEDURE proc1 IS BEGIN OPEN c1; LOOP FETCH c1 INTO v\_prodid; DBMS\_OUTPUT.PUT\_LINE('Row is: ' || c1%ROWCOUNT); EXIT WHEN c1%ROWCOUNT >= 3; END LOOP; END proc1; PROCEDURE proc2 IS BEGIN LOOP FETCH c1 INTO v\_prodid; DBMS\_OUTPUT.PUT\_LINE('Row is: ' || c1%ROWCOUNT); EXIT WHEN c1%ROWCOUNT >= 6; END LOOP; CLOSE c1; END proc2; END pack cur; /

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The product table has more than 1000 rows. The SQL\*Plus SERVEROUTPUT setting is turned on in your session. The product table has more than 1000 rows. The SQL\*Plus SERVEROUTPUT setting is turned on in your session. The product table has more than 1000 rows. The SQL\*Plus SERVEROUTPUT setting is turned on in your session. You execute the procedure PROC1 from SQL\*Plus with the command: The product table has more than 1000 rows. The SQL\*Plus SERVEROUTPUT setting is turned on in your session. You execute the procedure PROC1 from SQL\*Plus with the command: EXECUTE pack\_cur.proc1 You execute the procedure PROC1 from SQL\*Plus with the command: EXECUTE pack\_cur.proc1 You execute the procedure PROC1 from SQL\*Plus with the command: EXECUTE pack\_cur.proc1 What is the output in your session?

EXECUTE pack\_cur.proc1. What is the output in your session? What is the output in your session? A. ERROR at line 1: What is the output in your session? A. ERROR at line 1: A. ERROR at line 1: B. Row is:

```
A. ERROR at line 1:
B. Row is:
C. Row is:
D. Row is: Row is:
E. Row is: 1 Row is:
F. Row is: 1 Row is: 2
G. Row is: 1 Row is: 2 Row is: 3
H. Row is: 1 Row is: 2 Row is: 3 Row is: 4
J. Row is: 4
K. Row is: 4 Row is: 5
K. Row is: 4 Row is: 5 Row is: 6 Row is: 5 Row is: 6
```

## Answer: E, F, G, H

# Question: 5

Examine this procedure:

```
CREATE OR REPLACE PROCEDURE INSERT_TEAM
(V_ID in NUMBER, V_CITY in VARCHAR2 DEFAULT 'AUSTIN' V_NAME in VARCHAR2) IS
BEGIN
INSERT INTO TEAM (id, city, name)
VALUES (v_id, v_city, v_name);
COMMIT;
END;
```

Which two statements will successfully invoke this procedure in iSQL\*Plus? (Choose two.)

```
A. EXECUTE INSERT_TEAM;
```

- B. EXECUTE INSERT\_TEAM(3, V\_NAME=>'LONGHORNS', V\_CITY=>'AUSTIN');
- C. EXECUTE INSERT\_TEAM(3,'AUSTIN','LONGHORNS');
- D. EXECUTE INSERT\_TEAM (V\_ID := 3, V\_NAME := 'LONGHORNS', V\_CITY := 'AUSTIN');
- E. EXECUTE INSERT\_TEAM (3,'LONGHORNS');

#### Answer: B. C

# Question: 6

You need to create a DML trigger. Which five pieces need to be identified? (Choose five.)

- A. table
- B. DML event

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- C. trigger body
- D. package body
- E. package name
- F. trigger name
- G. system event
- H. trigger timing

# Answer: A, B, C, F, H

## Question: 7

This statement fails when executed:

CREATE OR REPLACE TRIGGER CALC\_TEAM\_AVG AFTER INSERT ON PLAYER BEGIN INSERT INTO PLAYER\_BAT\_STAT (PLAYER\_ID, SEASON\_YEAR,AT\_BATS,HITS) VALUES (:NEW.ID, 1997, 0,0); END; To which type must you convert the trigger to correct the error?

- A. row
- B. statement
- C. ORACLE FORM trigger
- D. before

## **Answer: A**

# **Question: 8**

Examine this package:

```
CREATE OR REPLACE PACKAGE discounts
IS
  q id NUMBER := 7839;
 discount rate NUMBER := 0.00;
 PROCEDURE display price (p price NUMBER);
END discounts;
CREATE OR REPLACE PACKAGE BODY discounts
 PROCEDURE display price (p price NUMBER)
  IS
 BEGIN
    DBMS OUTPUT.PUT LINE('Discounted '||
         TO CHAR(p price*NVL(discount rate, 1)));
 END display price;
 BEGIN
    discount rate := 0.10;
END discounts;
```

Which statement is true?

- A. The value of DISCOUNT\_RATE always remains 0.00 in a session.
- B. The value of DISCOUNT\_RATE is set to 0.10 each time the package is invoked in a session.
- C. The value of DISCOUNT\_RATE is set to 1.00 each time the procedure DISPLAY\_PRICE is invoked.

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D. The value of DISCOUNT\_RATE is set to 0.10 when the package is invoked for the first time in a session.

## **Answer: D**

## Question: 9

Examine this code:

```
CREATE OR REPLACE PACKAGE comm_package
IS
g_comm NUMBER := 10;
PROCEDURE reset_comm(p_comm IN NUMBER);
END comm_package;
/
User Jones executes the following code at 9:01am:
EXECUTE comm_package.g_comm := 15
User Smith executes the following code at 9:05am:
EXECUTE comm_package.g_comm := 20
```

Which statement is true?

- A. g\_comm has a value of 15 at 9:06am for Smith.
- B. g\_comm has a value of 15 at 9:06am for Jones.
- C. g\_comm has a value of 20 at 9:06am for both Jones and Smith.
- D. g comm has a value of 15 at 9:03am for both Jones and Smith.
- E. g\_comm has a value of 10 at 9:06am for both Jones and Smith.
- F. g\_comm has a value of 10 at 9:03 for both Jones and Smith.

# Answer: B

## Question: 10

Examine this code:

Which statement removes the function?

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- A. DROP gen\_email\_name;
- B. REMOVE gen\_email\_name;
- C. DELETE gen\_email\_name;
- D. TRUNCATE gen\_email\_name;
- E. DROP FUNCTION gen email name;
- F. ALTER FUNCTION gen\_email\_name REMOVE;

# Answer: E

# **Question: 11**

The add\_player , upd\_player\_stat , and upd\_pitcher\_stat procedures are grouped together in a package. A variable must be shared among only these procedures. Where should you declare this variable?

- A. in the package body
- B. in a database trigger
- C. in the package specification
- D. in each procedure's DECLARE section, using the exact same name in each

## **Answer: A**

# **Question: 12**

Examine this code:

```
CREATE OR REPLACE TRIGGER secure_emp

BEFORE LOGON ON employees

BEGIN

IF (TO_CHAR(SYSDATE, 'DY') IN ('SAT', 'SUN')) OR

(TO_CHAR(SYSDATE, 'HH24:MI')

NOT BETWEEN '08:00' AND '18:00')

THEN RAISE_APPLICATION_ERROR (-20500, 'You may

insert into the EMPLOYEES table only during

business hours.');

END IF;

END;
/
```

What type of trigger is it?

- A. DML trigger
- B. INSTEAD OF trigger
- C. application trigger
- D. system event trigger
- E. This is an invalid trigger.

# **Answer: E**

#### Question: 13

What happens during the execute phase with dynamic SQL for INSERT, UPDATE, and DELETE operations?

- A. The rows are selected and ordered.
- B. The validity of the SQL statement is established.

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- C. An area of memory is established to process the SQL statement.
- D. The SQL statement is run and the number of rows processed is returned.
- E. The area of memory established to process the SQL statement is released.

## **Answer: D**

## Question: 14

Examine this package:

```
CREATE OR REPLACE PACKAGE manage emps
    tax rate CONSTANT NUMBER(5,2) := .28;
    v id NUMBER;
    PROCEDURE insert emp (p deptno NUMBER, p sal NUMBER);
    PROCEDURE delete emp;
    PROCEDURE update emp;
    FUNCTION calc tax (p sal NUMBER)
      RETURN NUMBER;
END manage emps;
CREATE OR REPLACE PACKAGE BODY manage emps
    PROCEDURE update sal
      (p raise amt NUMBER)
    IS
    BEGIN
      UPDATE emp
        SET sal = (sal * p raise amt) + sal
        WHERE empno = v_id;
     END;
  PROCEDURE insert emp
    (p_deptno NUMBER, p_sal NUMBER)
    IS
    BEGIN
      INSERT INTO emp(empno, deptno, sal)
        VALUES(v id, p deptno, p sal);
    END insert emp;
  PROCEDURE delete emp
    IS
    BEGIN
     DELETE FROM emp
       WHERE empno = v id;
    END delete emp;
  PROCEDURE update emp
      v sal NUMBER(10, 2);
      v raise NUMBER(10, 2);
```

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```
BEGIN
      SELECT sal
        INTO v sal
        FROM emp
        WHERE empno = v id;
      IF v sal < 500 THEN
        v raise := .05;
      ELSIF v sal < 1000 THEN
        v raise := .07;
      ELSE
        v raise := .04;
      END IF;
      update_sal(v_raise);
    END update emp;
  FUNCTION calc tax
    (p sal NUMBER)
    RETURN NUMBER
    BEGIN
      RETURN p sal * tax rate;
    END calc tax;
END manage emps;
```

How many public procedures are in the MANAGE\_EMPS package?

- A. one
- B. two
- C. three
- D. four
- E. five
- F. none

# **Answer: F**

## Question: 15

You need to remove the database trigger BUSINESS\_HOUR. Which command do you use to remove the trigger in the SQL\*Plus environment?

- A. DROP TRIGGER business\_hour;
- B. DELETE TRIGGER business\_hour;
- C. REMOVE TRIGGER business\_hour;
- D. ALTER TRIGGER business\_hour REMOVE;
- E. DELETE FROM USER\_TRIGGERS WHERE TRIGGER\_NAME = 'BUSINESS\_HOUR';

# **Answer: A**

# Question: 16

Which three are valid ways to minimize dependency failure? (Choose three.)

- A. querying with the SELECT \* notation
- B. declaring variables with the %TYPE attribute

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- C. specifying schema names when referencing objects
- D. declaring records by using the %ROWTYPE attribute
- E. specifying package.procedure notation while executing procedures

# Answer: A, B, D

Question: 17

Procedure PROCESS\_EMP references the table EMP. Procedure UPDATE\_EMP updates rows of table EMP through procedure PROCESS\_EMP. There is a remote procedure QUERY\_EMP that queries the EMP table through the local procedure PROCESS\_EMP. The dependency mode is set to TIMESTAMP in this session. Which two statements are true? (Choose two.)

- A. If the signature of procedure PROCESS\_EMP is modified and successfully recompiles, the EMP table is invalidated.
- B. If internal logic of procedure PROCESS\_EMP is modified and successfully recompiles, UPDATE\_EMP gets invalidated and will recompile when invoked for the first time.
- C. If the signature of procedure PROCESS\_EMP is modified and successfully recompiles, UPDATE\_EMP gets invalidated and will recompile when invoked for the first time.
- D. If internal logic of procedure PROCESS\_EMP is modified and successfully recompiles, QUERY\_EMP gets invalidated and will recompile when invoked for the first time.
- E. If internal logic of procedure PROCESS\_EMP is modified and successfully recompiles, QUERY\_EMP gets invalidated and will recompile when invoked for the second time.

# Answer: B, E

#### Question: 18

You have a table with the following definition:

CREATE TABLE long tab (id NUMBER, long col LONG);

You need to convert the LONG\_COL column from a LONG data type to a LOB data type. Which statement accomplishes this task?

- A. ALTER TABLE long tab MODIFY (LONG COL CLOB):
- B. EXECUTE dbms\_lob.migrate(long\_tab, long\_col, clob)
- C. EXECUTE dbms\_manage.lob.migrate(long\_tab, long\_col, clob)
- D. EXECUTE utl lob.migrate(long tab, long col, clob)
- E. EXECUTE utl\_manage\_lob.migrate(long\_tab, long\_col, clob)

# **Answer: A**

# Question: 19 Examine this code:

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Which two statements are true? (Choose two.)

- A. This function is invalid.
- B. This function can be used against any table.
- C. This function cannot be used in a SELECT statement.
- D. This function can be used only if the two parameters passed in are not null values.
- E. This function will generate a string based on 2 character values passed into the function.
- F. This function can be used only on tables where there is a p\_first and p\_last column.

# Answer: B, E

## Question: 20

All users currently have the INSERT privilege on the PLAYER table. You only want your users to insert into this table using the ADD\_PLAYER procedure. Which two actions must you take? (Choose two.)

- A. GRANT SELECT ON ADD PLAYER TO PUBLIC;
- B. GRANT EXECUTE ON ADD PLAYER TO PUBLIC;
- C. GRANT INSERT ON PLAYER TO PUBLIC:
- D. GRANT EXECUTE, INSERT ON ADD PLAYER TO PUBLIC;
- E. REVOKE INSERT ON PLAYER FROM PUBLIC;

# Answer: B, E

# Question: 21

Examine this package:

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```
CREATE OR REPLACE PACKAGE pack cur
  CURSOR c1 IS
   SELECT
           prodid
      FROM
             product
      ORDER BY prodid DESC;
 PROCEDURE proc1;
 PROCEDURE proc2;
END pack cur;
CREATE OR REPLACE PACKAGE BODY pack cur
 v prodid NUMBER;
 PROCEDURE proc1 IS
 BEGIN
    OPEN c1;
   LOOP
      FETCH c1 INTO v prodid;
        DBMS OUTPUT.PUT LINE('Row is: ' | c1%ROWCOUNT);
        EXIT WHEN c1%ROWCOUNT >= 3;
     END LOOP;
 END proc1;
  PROCEDURE proc2 IS
 BEGIN
   LOOP
      FETCH c1 INTO v prodid;
      DBMS OUTPUT.PUT LINE('Row is: ' | c1%ROWCOUNT);
      EXIT WHEN c1%ROWCOUNT >= 6;
   END LOOP;
   CLOSE c1;
 END proc2;
END pack cur;
```

The product table has more than 1000 rows. The SQL \*Plus SERVEROUTPUT setting is turned on in your session. You execute the procedure PROC1 from SQL\*Plus with the command: EXECUTE pack\_cur.PROC1;

You then execute the procedure PROC2 from the SQL\*Plus with the command EXECUTE pack cur.PROC2;

What is the output in your session from the PROC2 procedure?

```
A. ERROR at line 1:
B. Row is: Row is: Row is:
C. Row is:1 Row is: 2 Row is: 3
D. Row is: 4 Row is: 5 Row is: 6
```

# **Answer: D**

## Question: 22

Which two dictionary views track dependencies? (Choose two.)

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- A. USER\_SOURCE
- B. UTL DEPTREE
- C. USER\_OBJECTS
- D. DEPTREE\_TEMPTAB
- E. USER DEPENDENCIES
- F. DBA\_DEPENDENT\_OBJECTS

Answer: D, E

Question: 23

When creating a function, in which section will you typically find the RETURN keyword?

- A. HEADER only
- B. DECLARATIVE
- C. EXECUTABLE and HEADER
- D. DECLARATIVE, EXECUTABLE and EXCEPTION HANDLING

**Answer: C** 

Question: 24

When creating stored procedures and functions, which construct allows you to transfer values to and from the calling environment?

- A. local variables
- B. arguments
- C. Boolean variables
- D. substitution variables

**Answer: B** 

Question: 25

You have the following table:

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```
CREATE TABLE Emp log (
               Emp id
                         NUMBER,
               Log date DATE,
               New salary NUMBER,
               Action
                        VARCHAR2 (20));
You have the following data in the EMPLOYEES table:
EMPLOYEE ID LAST NAME
                                SALARY DEPARTMENT ID
24000
                                               90
100
          King
101
          Kochhar
                                17000
                                               90
          De Haan
                                                90
102
                                17000
103
          Hunold
                                 9000
                                                60
                                                60
104
          Ernst
                                6000
105
          Austin
                                4800
                                                60
106
          Pataballa
                                                60
                                4800
107
          Lorentz
                                4200
                                                60
108
          Greenberg
                               12000
                                              100
201
          Hartstein
                               13000
                                               20
                                               20
202
           Fay
                                 6000
CREATE OR REPLACE TRIGGER Log salary increase
AFTER UPDATE ON employees
FOR EACH ROW
WHEN (new.Salary > 1000)
BEGIN
   INSERT INTO Emp log (Emp id, Log date, New salary, Action)
      VALUES (:new.Employee id, SYSDATE, :new.SALary, 'NEW SAL');
END;
Then, you enter the following SQL statement:
UPDATE Employees SET Salary = Salary + 1000.0
   WHERE Department id = 20;
```

You create this trigger:

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CA.	EMP_ID	LOG_DATE	NEW_SALARY	ACTION
	201	24-SEP-02	13000	NEW SAL
	202	24-SEP-02	6000	NEW SAL
OВ.	EMP_ID	LOG_DATE	NEW_SALARY	ACTION
	201	24-SEP-02	14000	NEW SAL
	202	24-SEP-02	7000	NEW SAL
O.C.	EMP_ID	LOG_DATE	NEW_SALARY	ACTION
	201	24-SEP-02		NEW SAL
	202	24-SEP-02		NEW SAL

What are the results in the EMP\_LOG table?

- A. picture
- B. picture
- C. picture
- D. No rows are inserted.

# **Answer: B**

# Question: 26

When using a packaged function in a query, what is true?

- A. The COMMIT and ROLLBACK commands are allowed in the packaged function.
- B. You can not use packaged functions in a query statement.
- C. The packaged function cannot execute an INSERT, UPDATE, or DELETE statement against the table that is being queried.
- D. The packaged function can execute an INSERT, UPDATE, or DELETE statement against the table that is being queried if it is used in a subquery.
- E. The packaged function can execute an INSERT, UPDATE, or DELETE statement against the table that is being queried if the pragma RESTRICT REFERENCES is used.

# **Answer: C**

# Question: 27

Which two tables or views track object dependencies? (Choose two).

- A. USER\_DEPENDENCIES
- B. USER\_IDEPTREE
- C. IDEPTREE
- D. USER DEPTREE
- E. USER\_DEPENDS

# Answer: A, C

## Question: 28

Which table should you query to determine when your procedure was last compiled?

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- A. USER\_PROCEDURES
- B. USER PROCS
- C. USER OBJECTS
- D. USER\_PLSQL\_UNITS

## **Answer: C**

## Question: 29

Which two statements about packages are true? (Choose two.)

- A. Packages can be nested.
- B. You can pass parameters to packages.
- C. A package is loaded into memory each time it is invoked.
- D. The contents of packages can be shared by many applications.
- E. You can achieve information hiding by making package constructs private.

# Answer: D, E

## **Question: 30**

Which statement about triggers is true?

- A. You use an application trigger to fire when a DELETE statement occurs.
- B. You use a database trigger to fire when an INSERT statement occurs.
- C. You use a system event trigger to fire when an UPDATE statement occurs.
- D. You use an INSTEAD OF trigger to fire when a SELECT statement occurs.

## **Answer: B**

# **Question: 31**

Which two statements about the overloading feature of packages are true? (Choose two.)

- A. Only local or packaged subprograms can be overloaded.
- B. Overloading allows different functions with the same name that differ only in their return types.
- C. Overloading allows different subprograms with the same name number, type and order of parameters.
- D. Overloading allows different subprograms with the same name and same number or type of parameters.
- E. Overloading allows different subprograms with same name, but different in either number, type or order of parameters.

# Answer: A, E

# Question: 32 Examine this code:

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```
CREATE OR REPLACE FUNCTION calc_sal (p_salary NUMBER)
RETURN NUMBER
IS
    v_raise NUMBER(4,2) DEFAULT 1.08;
BEGIN
    RETURN v_raise * p_salary;
END calc_sal;
/
```

Which statements accurately call the stored function CALC\_SAL? (Choose two.)

- A. UPDATE employees (calc\_sal(salary)) SET salary = salary \* calc\_sal(salary);
- B. INSERT calc\_sal(salary) INTO employees WHERE department\_id = 60;
- C. DELETE FROM employees(calc sal(salary)) WHERE calc sal(salary) > 1000;
- D. SELECT salary, calc\_sal(salary) FROM employees WHERE department\_id = 60;
- E. SELECT last name, salary, calc sal(salary) FROM employees ORDER BY calc sal(salary);

# Answer: D, E

Question: 33

Which part of a database trigger determines the number of times the trigger body executes?

- A. trigger type
- B. trigger body
- C. trigger event
- D. trigger timing

## **Answer: A**

# Question: 34

Examine the code examples.

Which one is correct?

- A. CREATE OR REPLACE TRIGGER authorize\_action BEFORE INSERT ON EMPLOYEES CALL log\_execution; /
- B. CREATE OR REPLACE TRIGGER authorize\_action BEFORE INSERT ON EMPLOYEES CALL log\_execution /
- C. CREATE OR REPLACE TRIGGER authorize\_action BEFORE EMPLOYEES INSERT CALL log\_execution;
- D. CREATE OR REPLACE TRIGGER authorize\_action CALL log\_execution BEFORE INSERT ON EMPLOYEES; /

## **Answer: B**

**Question: 35** Examine this code:

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```
CREATE OR REPLACE PROCEDURE audit_action
(p_who VARCHAR2)

AS
BEGIN
INSERT INTO audit(schema_user) VALUES(p_who);
END audit_action;
/

CREATE OR REPLACE TRIGGER watch_it
AFTER LOGON ON DATABASE
CALL audit_action(ora_login_user)
/
```

What does this trigger do?

- A. The trigger records an audit trail when a user makes changes to the database.
- B. The trigger marks the user as logged on to the database before an audit statement is issued.
- C. The trigger invokes the procedure audit\_action each time a user logs on to his/her schema and adds the username to the audit table.
- D. The trigger invokes the procedure audit\_action each time a user logs on to the database and adds the username to the audit table

## **Answer: D**

# Question: 36

You have an AFTER UPDATE row-level trigger on the table EMP. This trigger queries the EMP table and inserts the updating user's information into the AUDIT\_TABLE. What happens when the user updates rows on the EMP table?

- A. A compile time error occurs.
- B. A runtime error occurs. The effect of trigger body and the triggering statement are rolled back.
- C. A runtime error occurs. The effect of trigger body is rolled back, but the update on the EMP table takes place.
- D. The trigger fires successfully. The update on the EMP table occurs, and data is inserted into the AUDIT\_TABLE table.
- E. A runtime error occurs. The update on the EMP table does not take place, but the insert into the AUDIT\_TABLE occurs.

## **Answer: B**

# Question: 37

Examine this code:

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```
CREATE OR REPLACE PACKAGE metric converter
  c height CONSTANT NUMBER := 2.54;
  c weight CONSTANT NUMBER := .454;
  FUNCTION calc height (p height in inches NUMBER)
    RETURN NUMBER;
  FUNCTION calc weight (p weight in pounds NUMBER)
    RETURN NUMBER;
END;
CREATE OR REPLACE PACKAGE BODY metric converter
  FUNCTION calc height (p height in inches NUMBER)
    RETURN NUMBER
    IS
    BEGIN
      RETURN p height in inches * c_height;
    END calc height;
  FUNCTION calc weight (p weight in pounds NUMBER)
    RETURN NUMBER
    IS
    BEGIN
      RETURN p weight in pounds * c weight;
    END calc weight;
END metric converter;
CREATE OR REPLACE FUNCTION calc height (p height in inches NUMBER)
  RETURN NUMBER
  IS
BEGIN
  RETURN p height in inches * metric converter.c height;
END calc height;
1
```

## Which statement is true?

- A. If you remove the package specification, then the package body and the stand alone stored function CALC\_HEIGHT are removed.
- B. If you remove the package body, then the package specification and the stand alone stored function CALC\_HEIGHT are removed.
- C. If you remove the package specification, then the package body is removed.
- D. If you remove the package body, then the package specification is removed.
- E. If you remove the stand alone stored function CALC\_HEIGHT, then the METRIC\_CONVERTER package body and the package specification are removed.
- F. The stand alone function CALC\_HEIGHT cannot be created because its name is used in a packaged function.

#### Answer: C

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# Question: 38 Examine this code:

```
CREATE OR REPLACE STORED FUNCTION get_sal

(p_raise_amt NUMBER, p_employee_id employees.employee_id%TYPE)
RETURN NUMBER

IS

v_salary NUMBER;

v_raise NUMBER(8,2);

BEGIN

SELECT salary

INTO v_salary

FROM employees

WHERE employeesid = p_employee_id;

v_raise := p_raise_amt * v_salary;

RETURN v_raise;

END;
```

Which statement is true?

- A. This statement creates a stored procedure named get\_sal.
- B. This statement returns a raise amount based on an employee id.
- C. This statement creates a stored function named get sal with a status of invalid.
- D. This statement creates a stored function named get\_sal.
- E. This statement fails.

# **Answer: E**

# **Question: 39**

Why do you use an INSTEAD OF trigger?

- A. to perform clean up actions when ending a user session
- B. to insert data into a view that normally does not accept inserts
- C. to insert into an audit table when data is updated in a sensitive column
- D. to modify data in which the DML statement has been issued against an inherently nonupdateable view

# **Answer: D**

## Question: 40

Given a function CALCTAX: : CREATE OR REPLACE FUNCTION calctax (sal NUMBER) RETURN NUMBER IS BEGIN RETURN (sal \* 0.05); END; If you want to run the above function from the SQL\*Plus prompt, which statement is true?

- A. You need to execute the command CALCTAX(1000); .
- B. You need to execute the command EXECUTE FUNCTION calctax; .
- C. You need to create a SQL\*Plus environment variable X and issue the command :X := CALCTAX(1000); .
- D. You need to create a SQL\*Plus environment variable X and issue the command EXECUTE :X := CALCTAX: .
- E. You need to create a SQL\*Plus environment variable X and issue the command EXECUTE :X:= CALCTAX(1000);

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# Answer: E

# Question: 41

Examine the trigger:

```
CREATE OR REPLACE TRIGGER Emp_count

AFTER DELETE ON Emp_tab

FOR EACH ROW

DECLARE

n INTEGER;

BEGIN

SELECT COUNT(*)

INTO n

FROM Emp_tab;

DBMS_OUTPUT.PUT_LINE(' There are now ' || n || ' employees.');

END;
```

This trigger results in an error after this SQL statement is entered: DELETE FROM Emp\_tab WHERE Empno = 7499; How do you correct the error?

- A. Change the trigger type to a BEFORE DELETE.
- B. Take out the COUNT function because it is not allowed in a trigger.
- C. Remove the DBMS\_OUTPUT statement because it is not allowed in a trigger.
- D. Change the trigger to a statement-level trigger by removing FOR EACH ROW.

# **Answer: D**

# Question: 42

Examine this package:

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```
CREATE OR REPLACE PACKAGE BB_PACK
   V MAX TEAM SALARY NUMBER (12,2);
    PROCEDURE ADD PLAYER(V ID IN NUMBER, V LAST NAME VARCHAR2, V SALARY NUMBER);
END BB PACK;
CREATE OR REPLACE PACKAGE BODY BB PACK
V_PLAYER_AVG NUMBER(4,3);
PROCEDURE UPD PLAYER STAT
(V ID IN NUMBER, V AB IN NUMBER DEFAULT 4, V HITS IN NUMBER)
IS
BEGIN
   UPDATE PLAYER BAT STAT
   SET AT BATS = AT BATS + V AB,
   HITS = HITS + V HITS
   WHERE PLAYER ID = V ID;
   COMMIT;
   VALIDATE PLAYER STAT(V ID);
END UPD PLAYER STAT;
PROCEDURE ADD PLAYER
(V ID IN NUMBER, V LAST NAME VARCHAR2, V SALARY NUMBER)
IS
BEGIN
   INSERT INTO PLAYER (ID, LAST NAME, SALARY)
   VALUES (V ID, V LAST NAME, V SALARY);
   UPD_PLAYER STAT(V_ID,0,0);
END ADD PLAYER;
END BB PACK;
```

Which statement will successfully assign .333 to the V\_PLAYER\_AVG variable from a procedure outside the package?

```
A. V_PLAYER_AVG := .333;
B. BB_PACK.UPD_PLAYER_STAT.V_PLAYER_AVG := .333;
C. BB_PACK.V_PLAYER_AVG := .333;
D. This variable cannot be assigned a value from outside of the package.
```

## **Answer: D**

# Question: 43

You disabled all triggers on the EMPLOYEES table to perform a data load. Now, you need to enable all triggers on the EMPLOYEES table. Which command accomplishes this?

- A. You cannot enable multiple triggers on a table in one command.
- B. ALTER TRIGGERS ON TABLE employees ENABLE;
- C. ALTER employees ENABLE ALL TRIGGERS;
- D. ALTER TABLE employees ENABLE ALL TRIGGERS;

## **Answer: D**

## Question: 44

Examine this code:

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```
CREATE OR REPLACE PROCEDURE set_bonus
            IN VARCHAR2 DEFAULT 'Weekly',
(p cutoff
 p employee id IN employees.employee id%TYPE,
 p salary
           IN employees.salary%TYPE,
 p_bonus_percent IN OUT NUMBER DEFAULT 1.5,
 p margin
                OUT NUMBER DEFAULT 2,
 p_bonus_value OUT NUMBER)
IS
BEGIN
  UPDATE emp bonus
 SET bonus amount = (p salary * p bonus percent) / p margin
 WHERE employee id = p employee id;
END set bonus;
1
```

You execute the CREATE PROCEDURE statement above and notice that it fails. What are two reasons why it fails? (Choose two.)

- A. The syntax of the UPDATE statement is incorrect.
- B. You cannot update a table using a stored procedure.
- C. The formal parameter p\_bonus\_value is declared but is not used anywhere.
- D. The declaration of the formal parameter p\_cutoff cannot have a DEFAULT clause.
- E. The declaration of the formal parameter p\_margin cannot have a DEFAULT clause.
- F. The declaration of the formal parameter p\_bonus\_percent cannot have a DEFAULT clause.

# Answer: E, F

## Question: 45

Which type of argument passes a value from a procedure to the calling environment?

- A. VARCHAR2
- B. BOOLEAN
- C. OUT
- D. IN

# **Answer: C**

# Question: 46

You want to create a PL/SQL block of code that calculates discounts on customer orders. This code will be invoked from several places, but only within the program unit ORDERTOTAL. What is the most appropriate location to store the code that calculates the discount?

- A. a stored procedure on the server
- B. a block of code in a PL/SQL library
- C. a standalone procedure on the client machine
- D. a block of code in the body of the program unit ORDERTOTAL
- E. a local subprogram defined within the program unit ORDERTOTAL

# **Answer: E**

## Question: 47

Which statements are true? (Choose all that apply.)

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- A. If errors occur during the compilation of a trigger, the trigger is still created.
- B. If errors occur during the compilation of a trigger you can go into SQL\*Plus and query the USER TRIGGERS data dictionary view to see the compilation errors.
- C. If errors occur during the compilation of a trigger you can use the SHOW ERRORS command within iSQL\*Plus to see the compilation errors.
- D. If errors occur during the compilation of a trigger you can go into SQL\*Plus and query the USER\_ERRORS data dictionary view to see compilation errors.

# Answer: A, C, D

# Question: 48

What is a conditional predicate in a DML trigger?

- A. A conditional predicate allows you to specify a WHEN-LOGGING-ON condition in the trigger body
- B. A conditional predicate means you use the NEW and OLD qualifiers in the trigger body as a condition.
- C. A conditional predicate allows you to combine several DML triggering events into one in the trigger body.
- D. A conditional predicate allows you to specify a SHUTDOWN or STARTUP condition in the trigger body.

# **Answer: C**

# Question: 49

An internal LOB is \_\_\_\_\_.

- A. a table
- B. a column that is a primary key
- C. stored in the database
- D. a file stored outside of the database, with an internal pointer to it from a database column

# **Answer: C**

# Question: 50

Examine this code:

```
CREATE OR REPLACE PROCEDURE add_dept
   (p_dept_name VARCHAR2 DEFAULT 'placeholder',
    p_location VARCHAR2 DEFAULT 'Boston')

IS

BEGIN
   INSERT INTO departments
   VALUES(dept_id_seq.NEXTVAL, p_dept_name, p_location);

END add_dept;
/
```

Which three are valid calls to the add\_dept procedure? (Choose three.)

```
A. add_dept;B. add_dept( 'Accounting');C. add_dept( , 'New York');D. add_dept(p_location=> 'New York');
```

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# Answer: A, B, D

# Question: 51

You create a DML trigger. For the timing information, which are valid with a DML trigger? (Choose all that apply.)

- A. DURING
- B. IN PLACE OF
- C. ON SHUTDOWN
- D. BEFORE
- E. ON STATEMENT EXECUTION

## **Answer: D**

## Question: 52

Which two statements describe the state of a package variable after executing the package in which it is declared? (Choose two.)

- A. It persists across transactions within a session.
- B. It persists from session to session for the same user.
- C. It does not persist across transactions within a session.
- D. It persists from user to user when the package is invoked.
- E. It does not persist from session to session for the same user.

# Answer: A, E

## Question: 53

Examine the trigger heading:

CREATE OR REPLACE TRIGGER salary\_check BEFORE UPDATE OF sal, job ON emp FOR EACH ROW Under which condition does this trigger fire?

- A. when a row is inserted into the EMP table
- B. when the value of the SAL or JOB column in a row is updated in the EMP table
- C. when any column other than the SAL and JOB columns in a row are updated in the EMP table
- D. only when both values of the SAL and JOB columns in a row are updated together in the EMP table

### Answer: B

# Question: 54

Which four triggering events can cause a trigger to fire? (Choose four.)

- A. A specific error or any error occurs.
- B. A database is shut down or started up.
- C. A specific user or any user logs on or off.
- D. A user executes a CREATE or an ALTER table statement.
- E. A user executes a SELECT statement with an ORDER BY clause.
- F. A user executes a JOIN statement that uses four or more tables.

# Answer: A, B, C, D

# **Question: 55**

Which statement is valid when removing procedures?

A. Use a drop procedure statement to drop a standalone procedure.

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- B. Use a drop procedure statement to drop a procedure that is part of a package. Then recompile the package specification.
- C. Use a drop procedure statement to drop a procedure that is part of a package. Then recompile the package body.
- D. For faster removal and re-creation, do not use a drop procedure statement. Instead, recompile the procedure using the alter procedure statement with the REUSE SETTINGS clause.

# **Answer: A**

## Question: 56

Examine this procedure:

```
CREATE OR REPLACE PROCEDURE UPD_BAT_STAT

(V_ID IN NUMBER DEFAULT 10, V_AB IN NUMBER DEFAULT 4)

IS

BEGIN

UPDATE PLAYER_BAT_STAT

SET AT_BATS = AT_BATS + V_AB

WHERE PLAYER_ID = V_ID;

COMMIT;

END;
```

Which two statements will successfully invoke this procedure in iSQL\*Plus? (Choose two.)

- A. EXECUTE UPD\_BAT\_STAT;
- B. EXECUTE UPD\_BAT\_STAT(V\_AB=>10, V\_ID=>31);
- C. EXECUTE UPD\_BAT\_STAT(31,'FOUR','TWO');
- D. UPD\_BAT\_STAT(V\_AB=>10, V\_ID=>31);
- E. RUN UPD\_BAT\_STAT;

# Answer: A, B

# Question: 57

Examine this code:

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```
CREATE OR REPLACE FUNCTION gen email name
(p first name VARCHAR2, p last name VARCHAR2, p id NUMBER)
RETURN VARCHAR2
  v email name VARCHAR2(19);
BEGIN
  v email name := SUBSTR(p first name, 1, 1) ||
                  SUBSTR(p last name, 1, 7) ||
                  '@Oracle.com';
  UPDATE employees
         email = v email name
  SET
  WHERE employee id = p id;
  RETURN v email name;
END;
You run this SELECT statement:
SELECT first name, last name,
       gen email name(first name, last name, 108) EMAIL
FROM employees;
```

What occurs?

- A. Employee 108 has his email name updated based on the return result of the function.
- B. The statement fails because functions called from SQL expressions cannot perform DML.
- C. The statement fails because the function does not contain code to end the transaction.
- D. The SQL statement executes successfully, because UPDATE and DELETE statements are ignored in stored functions called from SQL expressions.
- E. The SQL statement executes successfully and control is passed to the calling environment.

## **Answer: B**

# **Question: 58**

Which three statements are true regarding database triggers? (Choose three.)

- A. A database trigger is a PL/SQL block, C, or Java procedure associated with a table, view, schema, or the database.
- B. A database trigger needs to be executed explicitly whenever a particular event takes place.
- C. A database trigger executes implicitly whenever a particular event takes place.
- D. A database trigger fires whenever a data event (such as DML) or system event (such as logon, shutdown) occurs on a schema or database.
- E. With a schema, triggers fire for each event for all users; with a database, triggers fire for each event for that specific user.

# Answer: A, C, D

## Question: 59

Examine this function:

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```
CREATE OR REPLACE FUNCTION CALC_PLAYER_AVG

(V_ID in PLAYER_BAT_STAT.PLAYER_ID*TYPE)

RETURN NUMBER

IS

V_AVG NUMBER;

BEGIN

SELECT HITS / AT_BATS

INTO V_AVG

FROM PLAYER_BAT_STAT

WHERE PLAYER_ID = V_ID;

RETURN (V_AVG);

END;
```

Which statement will successfully invoke this function in SQL\*Plus?

- A. SELECT CALC\_PLAYER\_AVG(PLAYER\_ID) FROM PLAYER\_BAT\_STAT;
- B. EXECUTE CALC\_PLAYER\_AVG(31);
- C. CALC\_PLAYER('Ruth');
- D. CALC\_PLAYER\_AVG(31);
- E. START CALC\_PLAYER\_AVG(31)

## Answer: A

# Question: 60

A dependent procedure or a function directly or indirectly references one or more of which four objects? (Choose four.)

- A. view
- B. sequence
- C. privilege
- D. procedure
- E. anonymous block
- F. packaged procedure or function

# Answer: A, B, D, F

# **Question: 61**

Which command must you issue to allow users to access the UPD\_TEAM\_STAT trigger on the TEAM table?

- A. GRANT SELECT, INSERT, UPDATE, DELETE ON TEAM TO PUBLIC;
- B. GRANT SELECT, INSERT, UPDATE, DELETE ON UPD\_TEAM\_STAT TO PUBLIC;
- C. GRANT EXECUTE ON TEAM TO PUBLIC
- D. GRANT SELECT, EXECUTE ON TEAM, UPD\_TEAM\_STAT TO PUBLIC;

# **Answer: A**

# Question: 62

Examine this code:

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```
CREATE OR REPLACE PROCEDURE audit emp
  (p id IN emp.empno%TYPE)
IS
  v id NUMBER;
  PROCEDURE log exec
  IS
 BEGIN
    INSERT INTO log table (user id, log date)
    VALUES (USER, SYSDATE);
 END log exec;
 v name VARCHAR2(20);
BEGIN
  DELETE FROM emp
  WHERE empno = p id;
 log exec;
  SELECT ename, empno
   INTO v name, v id
  FROM emp
  WHERE empno = p id;
END audit emp;
```

Why does this code cause an error when compiled?

- A. An insert statement is not allowed in a subprogram declaration.
- B. Procedure LOG\_EXEC should be declared before any identifiers.
- C. Variable v\_name should be declared before declaring the LOG\_EXEC procedure.
- D. The LOG\_EXEC procedure should be invoked as EXECUTE log\_exec within the AUDIT\_EMP procedure.

# **Answer: C**

# Question: 63

Which three are true regarding error propagation? (Choose three.)

- A. An exception cannot propagate across remote procedure calls.
- B. An exception raised inside a declaration immediately propagates to the current block.
- C. The use of the RAISE; statement in an exception handler reraises the current exception.
- D. An exception raised inside an exception handler immediately propagates to the enclosing block.

# Answer: A, C, D

# Question: 64

You need to implement a virtual private database (vpd). In order to have the vpd functionality, a trigger is required to fire when every user initiates a session in the database. What type of trigger needs to be created?

- A. DML trigger
- B. System event trigger
- C. INSTEAD OF trigger
- D. Application trigger

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## **Answer: B**

## **Question: 65**

The add\_player procedure inserts rows into the PLAYER table. Which command will show this direct dependency?

- A. SELECT \* FROM USER DEPENDENCIES WHERE REFERENCED NAME = 'PLAYER';
- B. SELECT \* FROM USER\_DEPENDENCIES WHERE REFERENCED\_NAME = 'ADD\_PLAYER';
- C. SELECT \* FROM USER DEPENDENCIES WHERE TYPE = 'DIR';
- D. SELECT \* FROM USER DEPENDENCIES WHERE REFERENCED NAME = 'TABLE';

## Answer: A

#### Question: 66

Which code successfully calculates tax?

- A. CREATE OR REPLACE PROCEDURE calctax (p\_no IN NUMBER) RETURN tax IS v\_sal NUMBER; tax NUMBER; BEGIN SELECT sal INTO v\_sal FROM emp WHERE empno = p\_no; tax := v\_sal \* 0.05; END;
- B. CREATE OR REPLACE FUNCTION calctax (p\_no NUMBER) RETURN NUMBER IS v\_sal NUMBER; BEGIN SELECT sal INTO v\_sal FROM emp WHERE empno = p\_no; RETURN (v\_sal \* 0.05); END;
- C. CREATE OR REPLACE FUNCTION calctax (p\_no NUMBER) RETURN NUMBER IS v\_sal NUMBER; tax NUMBER; BEGIN SELECT sal INTO v\_sal FROM emp WHERE empno = p\_no; tax := v\_sal \* 0.05; END;
- D. CREATE OR REPLACE FUNCTION calctax (p\_no NUMBER) IS v\_sal NUMBER; tax NUMBER; BEGIN SELECT sal INTO v\_sal FROM emp WHERE empno = p\_no; tax := v\_sal \* 0.05; END;
- E. CREATE OR REPLACE FUNCTION calctax (p\_no NUMBER) IS v\_sal NUMBER; tax NUMBER; BEGIN SELECT sal INTO v\_sal FROM emp WHERE empno = p\_no; tax := v\_sal \* 0.05; END;
- F. CREATE OR REPLACE FUNCTION calctax (p\_no NUMBER) IS v\_sal NUMBER; tax NUMBER; BEGIN SELECT sal INTO v\_sal FROM emp WHERE empno = p\_no; tax := v\_sal \* 0.05; FND:
- G. CREATE OR REPLACE FUNCTION calctax (p\_no NUMBER) IS v\_sal NUMBER; tax NUMBER; BEGIN SELECT sal INTO v\_sal FROM emp WHERE empno = p\_no; FROM emp WHERE empno = p\_no; tax := v\_sal \* 0.05; END;
- H. CREATE OR REPLACE FUNCTION calctax (p\_no NUMBER) IS v\_sal NUMBER; tax NUMBER; BEGIN SELECT sal INTO v\_sal FROM emp WHERE empno = p\_no; tax := v\_sal \* 0.05; WHERE empno = p\_no; tax := v\_sal \* 0.05; END;
- I. CREATE OR REPLACE FUNCTION calctax (p\_no NUMBER) IS v\_sal NUMBER; tax NUMBER; BEGIN SELECT sal INTO v\_sal FROM emp WHERE empno = p\_no; tax := v\_sal \* 0.05; RETURN (tax); tax := v\_sal \* 0.05; END;
- J. CREATE OR REPLACE FUNCTION calctax (p\_no NUMBER) IS v\_sal NUMBER; tax NUMBER; BEGIN SELECT sal INTO v\_sal FROM emp WHERE empno = p\_no; tax := v\_sal \* 0.05; RETURN (tax); END;
- K. CREATE OR REPLACE FUNCTION calctax (p\_no NUMBER) IS v\_sal NUMBER; tax NUMBER; BEGIN SELECT sal INTO v\_sal FROM emp WHERE empno = p\_no; tax := v\_sal \* 0.05; RETURN (tax); END;
- L. CREATE OR REPLACE FUNCTION calctax (p\_no NUMBER) IS v\_sal NUMBER; tax NUMBER; BEGIN SELECT sal INTO v\_sal FROM emp WHERE empno = p\_no; tax := v\_sal \* 0.05; RETURN (tax); END;
- M. CREATE OR REPLACE FUNCTION calctax (p\_no NUMBER) IS v\_sal NUMBER; tax NUMBER; BEGIN SELECT sal INTO v\_sal FROM emp WHERE empno = p\_no; tax := v\_sal \*

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0.05; RETURN (tax); END; v\_sal NUMBER; tax NUMBER; BEGIN SELECT sal INTO v\_sal FROM emp WHERE empno = p\_no; tax := v\_sal \* 0.05; RETURN (tax); END;

#### **Answer: B**

# Question: 67 Examine this code:

```
CREATE OR REPLACE FUNCTION change dept
 (p old id NUMBER, p deptname VARCHAR2)
 RETURN NUMBER
 IS
   v new id NUMBER;
 BEGIN
  SELECT departments seq.nextval
   INTO
         v new id
          dual;
   FROM
   UPDATE departments
          department id = v new id,
          department name = p deptname
  WHERE department id
                         = p old id;
 RETURN v new id;
END;
```

There are no foreign key integrity constraints on the EMPLOYEES and DEPARTMENTS tables. Which statement performs a successful update to the EMPLOYEES table?

- A. UPDATE departments SET department\_id = change\_dept(10, 'Finance') WHERE department\_id = 10;
- B. UPDATE employees SET department\_id = change\_dept(10, 'Finance') WHERE department\_id = 10;
- C. UPDATE departments SET department\_id = change\_dept(270, 'OUTSOURCE') WHERE department\_name = 'Payroll';
- D. UPDATE employees, change\_dept(270, 'Outsource') SET department\_id = DEPARTMENTS.CURRVAL;

# **Answer: B**

## Question: 68

Which two statements about object dependencies are accurate? (Choose two.)

- A. When referencing a package procedure or function from a stand-alone procedure or function, if the package specification changes, the package body remains valid but the stand-alone procedure becomes invalid.
- B. When referencing a package procedure or function from a stand-alone procedure or function, if the package body changes and the package specification does not change, the stand-alone procedure referencing a package construct remains valid.
- C. When referencing a package procedure or function from a stand-alone procedure or function, if the package body changes and the package specification does not change, the stand-alone procedure referencing a package construct becomes invalid.

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D. When referencing a package procedure or function from a stand-alone procedure or function, If the package specification changes, the stand-alone procedure referencing a package construct as well as the package body become invalid.

Answer: B, D

Question: 69

Which code successfully calculates tax?

- A. CREATE OR REPLACE PROCEDURE calctax (p\_no IN NUMBER) RETURN tax IS v\_sal NUMBER; tax NUMBER; BEGIN SELECT sal INTO v\_sal FROM emp WHERE empno = p\_no: tax := v\_sal \* 0.05: END:
- B. CREATE OR REPLACE FUNCTION calctax (p\_no NUMBER) RETURN NUMBER IS v\_sal NUMBER; BEGIN SELECT sal INTO v\_sal FROM emp WHERE empno = p\_no; RETURN (v sal \* 0.05); END;
- C. CREATE OR REPLACE FUNCTION calctax (p\_no NUMBER) RETURN NUMBER IS v\_sal NUMBER; tax NUMBER; BEGIN SELECT sal INTO v\_sal FROM emp WHERE empno = p\_no; tax := v\_sal \* 0.05; END;
- D. CREATE OR REPLACE FUNCTION calctax (p\_no NUMBER) IS v\_sal NUMBER; tax NUMBER; BEGIN tax NUMBER; BEGIN SELECT sal INTO v\_sal BEGIN SELECT sal INTO v\_sal FROM emp SELECT sal INTO v\_sal FROM emp WHERE empno = p\_no; FROM emp WHERE empno = p\_no; tax := v\_sal \* 0.05; WHERE empno = p\_no; tax := v\_sal \* 0.05; RETURN (tax); WHERE empno = p\_no; tax := v\_sal \* 0.05; RETURN (tax); END; tax := v\_sal \* 0.05; RETURN (tax); END; RETURN (tax); END;

**Answer: B** 

Question: 70

A CALL statement inside the trigger body enables you to call \_\_\_\_\_

A. a package

B. a stored function

C. a stored procedure

D. another database trigger

**Answer: C** 

Question: 71

Examine this package:

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```
CREATE OR REPLACE PACKAGE manage emps
    tax rate CONSTANT NUMBER(5,2) := .28;
    v id NUMBER;
    PROCEDURE insert_emp (p_deptno NUMBER, p_sal NUMBER);
    PROCEDURE delete emp;
    PROCEDURE update emp;
    FUNCTION calc_tax (p_sal NUMBER)
      RETURN NUMBER;
END manage emps;
1
CREATE OR REPLACE PACKAGE BODY manage emps
    PROCEDURE update sal
      (p raise amt NUMBER)
    BEGIN
      UPDATE emp
        SET sal = (sal * p_raise_amt) + sal
        WHERE empno = v_id;
    END;
 PROCEDURE insert emp
    (p_deptno NUMBER, p_sal NUMBER)
    IS
    BEGIN
      INSERT INTO emp(empno, deptno, sal)
        VALUES(v id, p deptno, p sal);
    END insert emp;
  PROCEDURE delete emp
    IS
    BEGIN
      DELETE FROM emp
        WHERE empno = v id;
    END delete emp;
  PROCEDURE update emp
```

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```
IS
      v sal NUMBER(10, 2);
      v raise NUMBER(10, 2);
    BEGIN
      SELECT sal
        INTO v_sal
        FROM emp
        WHERE empno = v id;
      IF v sal < 500 THEN
        v raise := .05;
      ELSIF v sal < 1000 THEN
        v_raise := .07;
      ELSE
        v raise := .04;
      END IF;
      update sal(v raise);
    END update emp;
  FUNCTION calc tax
    (p sal NUMBER)
    RETURN NUMBER
    IS
    BEGIN
      RETURN p sal * tax rate;
    END calc tax;
END manage emps;
1
```

What is the name of the private procedure in this package?

A. CALC\_TAX
B. INSERT\_EMP
C. UPDATE\_SAL
D. DELETE\_EMP
E. UPDATE\_EMP

F. MANAGE EMPS

Answer: C

# Question: 72

You have a row level BEFORE UPDATE trigger on the EMP table. This trigger contains a SELECT statement on the EMP table to ensure that the new salary value falls within the minimum and maximum salary for a given job title. What happens when you try to update a salary value in the EMP table?

- A. The trigger fires successfully.
- B. The trigger fails because it needs to be a row level AFTER UPDATE trigger.
- C. The trigger fails because a SELECT statement on the table being updated is not allowed.
- D. The trigger fails because you cannot use the minimum and maximum functions in a BEFORE UPDATE trigger.

#### Answer: C

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## Question: 73

Consider this scenario:

A procedure X references a view Y that is based on a table Z. Which two statements are true? (Choose two.)

- A. Y is a referenced object.
- B. Z is a direct dependent of X.
- C. Y is a direct dependent of X.
- D. Y is an indirect dependent of X.
- E. Y is an indirect dependent of Z.
- F. Z is an indirect dependent of Y.

# Answer: A, C

## Question: 74

Which statement is true about removing packages?

- A. You must remove the package body first.
- B. Removing a package specification removes the body too.
- C. Removing the package body removes the specification too.
- D. You must remove both the package body and the specification separately.
- E. Removing a package specification removes all stand alone stored functions named in the specification.

## **Answer: B**

#### Question: 75

Which two does the INSTEAD OF clause in a trigger identify? (Choose two.)

- A. The view associated with the trigger.
- B. The table associated with the trigger.
- C. The event associated with the trigger.
- D. The package associated with the trigger.
- E. The statement level or for each row association to the trigger.

# Answer: A, C

# Question: 76

Which two statements are true about LOBs? (Choose two.)

- A. BFILES are stored in the database.
- B. All LOBs have read and write access.
- C. NCLOB represents a multi-byte character object.
- D. The Oracle9i server performs implicit conversions between BLOBs and NUMBER data types.
- E. The Oracle9i server performs implicit conversions between CLOBs and VARCHAR2 data types.

# Answer: C, E

## Question: 77

Which statement is true?

- A. Stored functions can be called from the SELECT and WHERE clauses only.
- B. Stored functions do not permit calculations that involve database links in a distributed environment.

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- C. Stored functions cannot manipulate new types of data, such as longitude and latitude.
- D. Stored functions can increase the efficiency of queries by performing functions in the query rather than in the application.

## **Answer: D**

## Question: 78

Examine this code:

```
CREATE OR REPLACE PROCEDURE add_dept

(p_name departments.department_name % TYPE DEFAULT 'unknown',
    p_loc departments.location_id % TYPE DEFAULT 1700)

IS

BEGIN

INSERT INTO departments (department_id, department_name,
    location_id)

VALUES (dept_seq.NEXTVAL, p_name, p_loc);

END add_dept;
/
```

You created the add\_dept procedure above, and you now invoke the procedure in SQL\*Plus. Which four are valid invocations? (Choose four.)

- A. EXECUTE add\_dept(p\_loc=>2500)
- B. EXECUTE add\_dept('Education', 2500)
- C. EXECUTE add\_dept('2500', p\_loc =>2500)
- D. EXECUTE add\_dept(p\_name=> 'Education', 2500)
- E. EXECUTE add\_dept(p\_loc=>2500, p\_name=>'Education')

# Answer: A, B, C, E

# Question: 79

Examine this package:

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```
CREATE OR REPLACE PACKAGE pack cur
  CURSOR c1 IS
           prodid
    SELECT
      FROM product
      ORDER BY prodid DESC;
  PROCEDURE proc1;
  PROCEDURE proc2;
END pack cur;
CREATE OR REPLACE PACKAGE BODY pack cur
  v prodid NUMBER;
 PROCEDURE proc1 IS
  BEGIN
    OPEN c1;
   LOOP
      FETCH c1 INTO v prodid;
        DBMS OUTPUT.PUT LINE('Row is: ' | c1%ROWCOUNT);
        EXIT WHEN c1%ROWCOUNT >= 3;
      END LOOP;
  END proc1;
  PROCEDURE proc2 IS
  BEGIN
   LOOP
      FETCH c1 INTO v prodid;
      DBMS_OUTPUT.PUT_LINE('Row is: ' | |c1%ROWCOUNT);
      EXIT WHEN c1%ROWCOUNT >= 6;
    END LOOP;
    CLOSE c1;
  END proc2;
END pack cur;
```

The product table has more than 1000 rows. The SQL\*Plus SERVEROUTPUT setting is turned on in your session.

You execute the procedure PROC1 from SQL\*Plus with the command:

EXECUTE pack\_cur.proc1

What is the output in your session?

A. ERROR at line 1:

B. Row is Row is: Row is:

C. Row is: 1 Row is: 2 Row is: 3

D. Row is: 4 Row is: 5 Row is: 6

# **Answer: C**

# Question: 80

Which two statements about functions are true? (Choose two.)

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- A. A function must have a return statement in its body to execute successfully.
- B. Client-side functions can be used in SQL statements.
- C. A stored function that is called from a SQL statement can return a value of any PL/SQL variable data type.
- D. From SQL\*Plus, a function can be executed by giving the command EXECUTE functionname;.
- E. A stored function increases efficiency of queries by performing functions on the server rather than in the application.

# Answer: A, E

# Question: 81

Examine this package:

```
CREATE OR REPLACE PACKAGE BB PACK
   V MAX TEAM SALARY
                      NUMBER (12,2);
    PROCEDURE ADD_PLAYER(V_ID IN NUMBER, V_LAST_NAME VARCHAR2, V_SALARY NUMBER);
END BB PACK;
CREATE OR REPLACE PACKAGE BODY BB PACK
V PLAYER AVG NUMBER (4,3);
PROCEDURE UPD PLAYER STAT
(V ID IN NUMBER, V AB IN NUMBER DEFAULT 4, V HITS IN NUMBER)
IS
BEGIN
   UPDATE PLAYER BAT STAT
   SET AT BATS = AT BATS + V AB,
   HITS = HITS + V HITS
   WHERE PLAYER ID = V ID;
   COMMIT;
  VALIDATE PLAYER STAT(V ID);
END UPD PLAYER STAT;
PROCEDURE ADD PLAYER
(V ID IN NUMBER, V LAST NAME VARCHAR2, V SALARY NUMBER)
IS
BEGIN
   INSERT INTO PLAYER (ID, LAST NAME, SALARY)
   VALUES (V_ID, V_LAST_NAME, V_SALARY);
   UPD PLAYER STAT(V ID, 0, 0);
END ADD PLAYER;
END BB PACK;
```

If you add an IF statement to the ADD\_PLAYER procedure, which additional step must you perform?

- A. Recompile the ADD\_PLAYER procedure.
- B. Recompile both the BB\_PACK specification and body.
- C. Recompile the BB PACK specification.
- D. Recompile the BB\_PACK body.

# **Answer: D**

## Question: 82

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Which code can you use to ensure that the salary is not increased by more than 10% at a time nor is it ever decreased?

- A. ALTER TABLE emp ADD CONSTRAINT ck\_sal CHECK (sal BETWEEN sal AND sal\*1.1);
- B. CREATE OR REPLACE TRIGGER check\_sal BEFORE UPDATE OF sal ON emp FOR EACH ROW WHEN (new.sal < old.sal OR new.sal &gt; old.sal \* 1.1) BEGIN RAISE\_APPLICATION\_ERROR ( - 20508, 'Do not decrease salary nor increase by more than 10%'); END;
- C. CREATE OR REPLACE TRIGGER check\_sal BEFORE UPDATE OF sal ON emp WHEN (new.sal < old.sal OR new.sal &gt; old.sal \* 1.1) BEGIN RAISE\_APPLICATION\_ERROR ( 20508, 'Do not decrease salary nor increase by more than 10%'); END;
- D. CREATE OR REPLACE TRIGGER check\_sal AFTER UPDATE OF sal ON emp WHEN (new.sal < old.sal OR -new.sal &gt; old.sal \* 1.1) BEGIN RAISE\_APPLICATION\_ERROR ( 20508, 'Do not decrease salary nor increase by more than 10%'); END;

## **Answer: B**

## Question: 83

How can you migrate from a LONG to a LOB data type for a column?

- A. Use the DBMS\_MANAGE\_LOB.MIGRATE procedure.
- B. Use the UTL\_MANAGE\_LOB.MIGRATE procedure.
- C. Use the DBMS LOB MIGRATE procedure.
- D. Use the ALTER TABLE command.
- E. You cannot migrate from a LONG to a LOB data type for a column.

## **Answer: D**

## Question: 84

Which two statements about packages are true? (Choose two.)

- A. Both the specification and body are required components of a package.
- B. The package specification is optional, but the package body is required.
- C. The package specification is required, but the package body is optional.
- D. The specification and body of the package are stored together in the database.
- E. The specification and body of the package are stored separately in the database.

# Answer: C, E

# Question: 85

When using a PL/SQL stored package, how is a side effect defined?

- A. changes only to database tables
- B. changes only to packaged public variables defined in a package body
- C. changes only to packaged public variables defined in a package specification
- D. changes to database tables or packaged public variables defined in a package body
- E. changes to database tables or packaged variables defined in a package specification

#### Answer: E

# **Question: 86**Examine this code:

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```
CREATE OR REPLACE PROCEDURE load bfile
  (p file loc IN VARCHAR2)
IS
  v file
            BFILE;
  v filename VARCHAR2(16);
  CURSOR emp cursor IS
    SELECT employee id
    FROM
          employees
    WHERE job id = 'IT PROG'
    FOR
           UPDATE;
BEGIN
  FOR emp record IN emp cursor LOOP
    v filename := emp record.employee id || '.GIF';
    v file := BFILENAME(p file loc, v filename);
  END LOOP;
END;
1
```

What does the BFILENAME function do?

- A. It reads data from an external BFILE.
- B. It checks for the existence of an external BFILE.
- C. It returns a BFILE locator that is associated with a physical LOB binary file on the server's file system.
- D. It creates a directory object for use with the external BFILEs.

## **Answer: C**

# Question: 87

Which two describe a stored procedure? (Choose two.)

- A. A stored procedure is typically written in SQL.
- B. A stored procedure is a named PL/SQL block that can accept parameters.
- C. A stored procedure is a type of PL/SQL subprogram that performs an action.
- D. A stored procedure has three parts: the specification, the body, and the exception handler part.
- E. The executable section of a stored procedure contains statements that assign values, control execution, and return values to the calling environment.

# Answer: B, C

## Question: 88

You need to create a trigger to ensure that information in the EMP table is only modified during business hours, Monday to Friday from 9:00am to 5:00pm. Which types of trigger do you create? (Choose two.)

- A. row level AFTER INSERT OR UPDATE OR DELETE ON EMP
- B. row level BEFORE INSERT OR UPDATE OR DELETE ON EMP
- C. statement level AFTER INSERT OR UPDATE OR DELETE ON EMP
- D. statement level BEFORE INSERT OR UPDATE OR DELETE ON EMP

# Answer: B, D

# Question: 89

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Examine this package:

```
CREATE OR REPLACE PACKAGE discounts

IS

g_id NUMBER := 7839;
discount_rate NUMBER := 0.00;
PROCEDURE display_price (p_price NUMBER);
END discounts;

/

CREATE OR REPLACE PACKAGE BODY discounts
IS

PROCEDURE display_price (p_price NUMBER)
IS
BEGIN
DBMS_OUTPUT.PUT_LINE('Discounted '||
TO_CHAR(p_price*NVL(discount_rate, 1)));
END display_price;
BEGIN
discount_rate := 0.10;
END discounts;
/
```

The SQL\*Plus SERVEROUTPUT setting is turned on in your session. You execute the procedure DISPLAY\_PRICE from SQL\*Plus with the command: EXECUTE discounts.display\_price (100); What is the result?

- A. Discounted 10
- B. Discounted 100
- C. Discounted 0.00
- D. Discounted NULL
- E. Discounted 0.10

## Answer: A

# Question: 90

You want to create procedures, functions and packages. Which privilege do you need?

- A. EXECUTE CODE object privilege
- B. CREATE ANY CODE object privilege
- C. CREATE PACKAGE system privilege
- D. CREATE PROCEDURE system privilege
- E. CREATE FUNCTION, CREATE PROCEDURE, CREATE PACKAGE system privileges

## **Answer: D**

# Question: 91

The creation of which four database objects will cause a DDL trigger to fire? (Choose four.)

- A. index
- B. cluster
- C. package
- D. function

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E. synonyms F. dimensions G. database links

Answer: A, B, C, D

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