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Vendor: IBM

Exam Code: C6030-042

Exam Name: Developing with IBM Enterprise PL/I

Version: Demo

QUESTION 1

The XMLCHAR builtin function provides the ability to do which of the following?

- A. Check XML for well-formedness
- B. Check XML for validity
- C. Create an XML buffer from a structure
- D. Read an XML file into a structure

Correct Answer: C

QUESTION 2

Which of the following is a typical deadlock situation?

Situation 1:

Transaction A waiting for resource_2 and Transaction B waiting for resource_1 while resource_1 is held by Transaction C and resource_2 is held by Transaction B

Situation 2:

Transaction A waiting for resource_1 and Transaction B waiting for resource_2 while resource_1 is held by Transaction B and resource_2 is held by Transaction C

Situation 3:

Transaction A Waiting for resource_2, Transaction B waiting for resource_3, Transaction C waiting for resource_1 ,while resource_1 ,resource_2 and resource_3 are held by Transactions A, B and C respectively.

Situation 4:

Transaction B waiting for resource_1 and Transaction C waiting for resource 2 while resource_1 is held by Transaction C and resource_2 is held by Transaction A

- A. Situation 1
- B. Situation 2
- C. Situation 3
- D. Situation 4

Correct Answer: C

QUESTION 3

Requirement:

If the value of the numeric variable I is 1 it needs to be changed to 2 and vice versa. In all other cases it must remain unchanged. Which of the following solutions meets the requirement and does not require essential structural modifications when the requirement is changed to the following: If the value of the numeric variable I is 512 it needs to be changed to 731 and if the value is 814 it needs to be changed to 5. In all other cases it must be set to 111.

- A. IF I = 1 ! I = 2 THEN I = 3 - I;
- B. DCL ONETWO(2) BIN FIXED(15) INIT(2,1);IF I = 1! I = 2 THEN I = ONETWO(I);
- C. SELECT (I);WHEN(1) I = 2;WHEN(2) I = 1;OTHER;END;
- D. IF I = 1 THEN I = 2;IF I = 2 THEN I = 1;

Correct Answer: C

QUESTION 4

Which of the following is LEAST likely to be performed by an online application?

- A. Checkpoint/restart logic
- B. Transaction processing
- C. End user interaction
- D. Sorting

Correct Answer: A

QUESTION 5

Which of the following PL/I features is NOT new with Enterprise PL/I?

- A. VALUE attribute for named constants.
- B. UNIONS or CELLS to assign identical storage to different variables.
- C. Writing numeric constants with the underscore sign as a separator.
- D. Using hexadecimal constants.

Correct Answer: D

QUESTION 6

The lead developer on a project has just learned that Pat, a highly skilled programmer on the team, has been reassigned. The lead developer is familiar with Pat's work and is concerned because no one on the team has the necessary skills to pick up the work immediately. A new employee with the required skills is joining the team next week, but the timeline for a mission critical milestone has been moved up to the end of this week. Which of the following is the most appropriate action for the lead developer to take to ensure that the critical milestone is met?

- A. Direct the team to cover all of Pat's work until the new employee arrives.
- B. Explain to the team why this change in schedule is important to the customer.
- C. Personally cover the work until the new employee arrives.
- D. Explore with the team whether they will be able to meet the new deadline.

Correct Answer: C

QUESTION 7

Given the following declarations, which statement correctly refers to X? DCL R CHAP(10);
 DCLX CHAR(10) BASED;
 DCL P PTR;
 DCLZ CHAR(10);
 P = ADDR(R);

- A. Z = P -> X;
- B. P = ADDR(X);
- C. Z = X;
- D. X='THIS IS X';

Correct Answer: A

QUESTION 8

Prerequisite:

A sorted input dataset with record length 100 contains at least one record for each of the values `1', `2', `3' in the first byte. The applied sort criteria is 1,100,ch,a.

Requirements:

- 1.) All records with `1' in the first byte must be ignored.
- 2.) All records with `2' in the first byte must be written to the output dataset.
- 3.) If there is a `3' in the first byte, the read iteration must be left.
- 4.) The program must not abend or loop infinitely.

If the code below does not fulfill the specifications provided above, which of the following is the most likely reason?

DCL DDIN FILE RECORD INPUT;
 DCL DDOUT FILE RECORD OUTPUT;

```

DCL 1 INSTRUC,
3 A CHAR(1),
3 * CHAR(99);
DCL EOF_IN BIT(1) INIT('0'B);
DCL (Z1,Z2,Z3,ZO) BIN FIXED(31) INIT(0);
ON ENDFILE(DDIN) EOF_IN = `1'B;
READ FILE(DDIN) INTO (INSTRUC);
LOOP: DO WHILE (^EOF_IN);
SELECT(INSTRUC.A);
WHEN('1') DO;
Z1 += Z1;
ITERATE LOOP;
END;
WHEN('3') DO;
Z3 = Z3+1;
LEAVE LOOP;
END;
WHEN('2') DO;
Z2 = Z2+1;
WRITE FILE(DDOUT) FROM(INSTRUC);
END;
OTHER DO;
ZO = ZO+1;
PUT SKIP LIST(INSTRUC.A);
END;
END;/*select*/
READ FILE(DDIN) INTO(INSTRUC);
END;/*loop*/

```

- A. The code does not fulfill the requirement because the program will loop infinitely. A. The code does not fulfill the requirement because the program will loop infinitely.
- B. The code does not fulfill the requirement because the last record with `2' in the first byte will be written twice to the output dataset.C. The code does not fulfill the requirement because the last record with `2' in the first byte will be written twice to the output dataset.
- C. The code does not fulfill the requirement because not all records with `2' in the first byte will be written to the output dataset.C. The code does not fulfill the requirement because not all records with `2' in the first byte will be written to the output dataset.
- D. The code fulfills the requirement.D. The code fulfills the requirement.

Correct Answer: A

QUESTION 9

Given the following declarations, which code is likely to perform best and correctly initialize structure 3?

```

DCL 1 S UNALIGNED,
2 A CHAR(3),
2 B BIN FIXED(31),
2 C DEC FIXED(5);
DCL 1 T UNALIGNED LIKE S;
T = ";

```

- A. S = ";
- B. S = T,BY NAME;
- C. CALL PLIFILL(ADDR(S)," ,STG(S));
- D. CALL PLIMOVE(ADDR(S),ADDR(T),STG(S));

Correct Answer: D

QUESTION 10

Given the following declarations, a list of 100 elements must be created so that the element created last

can be accessed as the first element of the list. A new element is always inserted in front of the element created before. The variable NEXT in the last element should contain the value NULL. Which of the following pieces of code implements this?

```
DCL 1 NODE BASED (ANCHOR).  
2 NEXT POINTER,  
2 DATA FIXED BIN (31);  
DCL ANCHOR POINTER;  
DCL P POINTER INIT (NULL());  
DCL I FIXED BIN(31);
```

- A. DO I = 1 TO 100;ALLOCATE NODE;NODE.DATA = I;NODE.NEXT = P;P = ANCHOR;END;
- B. DO I = 1 TO 100;P = ANCHOR;ALLOCATE NODE;NOTE.DATA = I;NODE.NEXT = P;END;
- C. I = 1 TO 100;ALLOCATE NODE;NODE.DATA = I;NODE.NEXT = P;ANCHOR = P;END;
- D. DO I = 1 TO 100;NODE.DATA = I;NODE.NEXT = P;ALLOCATE NODE;P = ANCHOR;END;

Correct Answer: A

QUESTION 11

In which of the following examples will a dummy argument be passed?

- A. DCLA EXT ENTRY;DCL (X,Y) FIXED BIN;CALL A(X,Y);
- B. DCL A EXT ENTRY (FIXED, BINARY);DCL (X,Y) FIXED BIN;CALL A(X,Y);
- C. DCL A EXT ENTRY (FIXED BINARY);DCL (X,Y) FIXED BIN;CALL A(X,Y);
- D. PGM: PROC OPTIONS(MAIN);DCL (X,Y) FIXED BIN;CALL C (X,Y);
- E. PROC (A,B);DCL (A,B) BIN FIXED;END C;END PGM;

Correct Answer: B

QUESTION 12

Which of the following will definitely NOT cause an unresolved external entry?

- A. Missing library at link time
- B. The main procedure name matching the binder or load module 'name'
- C. A mismatch in names between the CALL and the actual procedure
- D. An incorrect DECLARE for the external entry

Correct Answer: B

QUESTION 13

Which of the following best describes an atomic transaction?

- A. The database modifications must follow an 'all or nothing' rule
- B. Only valid data will be written to database
- C. If one part of the transaction fails, the remainder may still be processed
- D. Referential Integrity is maintained in the database

Correct Answer: A

QUESTION 14

SUBSCRIPTRANGE checks which of the following?

- A. The subscripts of an array are checked for conformance with iSUB defining rules.
- B. The address generated for accessing an array element is checked to be sure it falls within the storage allocated to the array.
- C. The value of each subscript used to refer to an array element is checked for validity after the element is accessed.
- D. The value of each subscript used to refer to an array element is checked for validity before the element is accessed.

Correct Answer: D

QUESTION 15

A program reads a GSAM dataset sequentially, reads complementary information from DB2- Databases and uses this information to update an IMS-Database, At the end of the program statistics about how many records have been read and how many IMS-Segments have been updated should be printed. The program should write checkpoints regularly and should be restartable. Which of the following groups of information saved when the checkpoint is written will provide enough information to be able to restart the program correctly?

- A. The key of the last record read from the GSAM dataset and the key of the last IMS segment changed.
- B. The number of records read from the GSAM dataset and the number of IMS segments changed.
- C. The number of records read from the GSAM dataset, the key of the last record read from the GSAM dataset and the key of the last IMS segment updated.
- D. The key of the last IMS segment changed and the number of segments changed.

Correct Answer: B

QUESTION 16

The lead developer is presenting sample code. One of the team members identifies an error in the code. Which of the following is the most appropriate response for the lead developer to make?

- A. Apologize for the error and continue the presentation.
- B. Thank the person for pointing out the error.
- C. Suggest that this error be discussed in the next meeting.
- D. Declare the point irrelevant because this is sample code.

Correct Answer: B

QUESTION 17

Given the following code:

```
DCL INDATA FILE RECORD INPUT;  
DCL INSTRUC CHAR(100);  
DCL EOF BIT(1) INIT('0'B);  
ON ENDFILE(INDATA) EOF = `1'B;  
OPEN FILE(INDATA);  
READ FILE(INDATA) INTO(INSTRUC);  
DO WHILE (^EOF);  
CALL SR_PROCESS;  
READ FILE(INDATA) INTO(INSTRUC);  
END;  
CLOSE FILE(INDATA);
```

If the database (input file) changes from OS-PS to DB2 view and the necessary syntax has been changed accordingly, which of the following DB2-related steps is NOT additionally required to guarantee the same level of stability and functionality?

- A. Check the SQLCODE after each EXEC SQL FETCH statement.
- B. Check the SQLCODE after each EXEC SQL OPEN / CLOSE statement.
- C. Set the EOF bit to `1'B, if SQLCODE = 100 (not found).
- D. Check the CURRENT SQLID.

Correct Answer: D

QUESTION 18

What could be used when a structure is passed to a subroutine to verify that the area the structure occupies in storage has not been overwritten?

- A. Structure is passed as a pointer.

- B. Structure has eyecatchers at start and at end.
- C. Structure has a length field at start.
- D. Structure is passed as an aggregate.

Correct Answer: B

QUESTION 19

In the following example what value will be printed to SYSPRINT, if any, from the PUT LIST in PGM_A?

```
PGM_A PROC;
DCL INPARM CHAR (10) INIT('FIRST CALL);
DCL P_OUT PTR;
DCL OUTPARM CHAR(10) BASED (P_OUT);
DCL PGM_B ENTRY(CHAR(10),PTR) EXTERNAL;
CALL P0MB (INPARM,P_OUT);
```

```
IF OUTPARM = `RESULT `THEN
DO;
INPARM = ";
CALL PGM_B (INPARM,P_OUT);
END;
PUT LIST(OUTPARM);
END;
PGM_B: PROC(INPARM,P_OUT);
DCL INPARM CHAR (10);
DCL P_OUT PTR;
DCL OUTPARM CHAR (10) INIT("");
```

```
P_OUT = ADDR(OUTPARM);
```

```
IF INPARM =`FIRST CALL THEN
OUTPARM = `RESULT `;
ELSE
OUTPARM = `NO RESULT`;
END;
```

- A. Blanks
- B. `NO RESULT`
- C. Unpredictable
- D. `RESULT`

Correct Answer: C

QUESTION 20

Which of the following is NOT part of the PL/I code review?

- A. Training course for the program's author
- B. Attendance of people with technical expertise
- C. Decision whether the review object is a appropriate solution
- D. Documentation of results of the review

Correct Answer: A

QUESTION 21

Given the following declaration, what declaration of B would cause the structure A to be invalid? DCL K

```
FIXED BIN (31) VALUE (10);
DCL P POINTER;
DCL 1 A BASED (P),
2 B FIXED BIN (31),
2 C DIM (K REFER (B)),
3 D FIXED BIN (31),
3 E CHAR (4);
```

ALLOCATE A;

- A. 2B FIXED BIN (31),
- B. 2B FIXED BIN (31) INIT (K),
- C. 2B FIXED BIN (31) INIT (10),
- D. 2B FIXED BIN (31) INIT (20),

Correct Answer: D

QUESTION 22

Program A calls program B with PC as a parameter defined BIN FIXED (31 .0). Program B sets PC as follows:

```
0 OK
4 WARNING
8 ERROR
```

Which of the following is the most appropriate statement for testing the PC variable?

- A. IF (RC ^= 0) & (RC ^= 4) THEN PUT SKIP LIST('ERROR IN B');ELSE IF RC> 8 THEN PUT SKIP LIST ('UNKNOWN VALUE FROM B');
- B. SELECT (RC);WHEN (0, 4);OTHERWISEPUT SKIP LIST('UNKNOWN VALUE FROM B');END;
- C. IF (RC >4) THEN PUT SKIP LIST('ERROR IN B');ELSE PUT SKIP LIST('UNKNOWN VALUE FROM B');
- D. SELECT (RC); WHEN (0,4); WHEN (8) PUT SKIP LIST ('ERROR IN B');OTHERWISE PUT SKIP LIST ('UNKNOWN VALUE FROM B');END;

Correct Answer: D

QUESTION 23

Which of the following statements about the newest PL/I compiler is NOT suitable to convince a stakeholder that migration to the new PL/I compiler is necessary?

- A. The new compiler takes advantage of the current machine instruction set.
- B. The new compiler provides new language features.
- C. The new compiler will tolerate more erroneous code.
- D. The new compiler is necessary because current versions of DB2 and CICS only officially support compilers which are "in service".

Correct Answer: C

QUESTION 24

What are the requirements on data to apply parallelization in a program?

- A. It should be partition able.
- B. It should follow the Relational model.
- C. It should follow the Hierarchical model.
- D. It should follow the Object model.

Correct Answer: A

QUESTION 25

In which of the following groups of compiler options could all the options specified cause the compiler to generate code which requires more time at execution?

- A. ATTRIBUTES(FULL),XREF(FULL),DEFAULT (EVENDEC,DUMMY(UNALIGNED)),OFFSET
- B. OPTIMIZE(0),NOREDUCE,PIREFIX(SIZE,SUBSCRIPTRANGE)
- C. OPTIMIZE(2),DEFAULT(REORDER,NOLAXDCL,NOLAXCTL),STORAGE,MMTEMP(1000)

D. APCH(5),BIFPREC(31),NOTESTMTUNE(5),NOSERVICE

Correct Answer: B

QUESTION 26

Given the following declaration, how many bytes will be occupied by the structure?

```
DCL 1 A ALIGNED,  
2 B FIXED BIN (31),  
2 C CHAR (1),  
2 D FIXED BIN (31),  
2 E FIXED DEC (5,2),  
2 F POINTER;
```

- A. 16
- B. 19
- C. 20
- D. 24

Correct Answer: C

QUESTION 27

What is the output of the following program?

```
DCL A AREA(8000);  
DCL 1 STR1 BASED(P),  
2 STR1_LGTH BIN FIXED(31),  
2 STR_CHAR CHAR(ALLOC_LGTH REFER(STR1_LGTH));  
DCL ALLOC_LGTH BIN FIXED(31);  
DCL I FIXED BIN(31);  
DCL P PTR;
```

```
ALLOC_LGTH = 100;  
DO I = 1 TO 10;  
ALLOC STR1 IN(A);  
END;  
PUT SKIP LIST(CSTG(A));
```

- A. 1016
- B. 1040
- C. 1056
- D. 8000

Correct Answer: C

QUESTION 28

Given the following code, what are the default attributes of DSET1 after the READ statement?

```
DCL DATA CHAR (80);  
DCL DSET1 FILE;  
READ FILE(DSET1) INTO(DATA);
```

- A. SEQUENTIAL RECORD INPUT
- B. STREAM INPUT
- C. DIRECT INPUT
- D. KEYED RECORD INPUT

Correct Answer: A

QUESTION 29

Which compiler option causes the compiler to flag any IF, WHILE, UNTIL and WHEN clauses that do not have the attributes BIT(1) NONVARYING?

- A. RULES(NOLAXWHILE)
- B. RULES(NOLAXIF)
- C. RULES(NOLAXUNTIL)
- D. RULES(NOLAXWHEN)

Correct Answer: B

QUESTION 30

A junior programmer has written a 3000 statement program and has asked the team lead for help in determining how to review it. Which of the following is the most appropriate response for the team lead?

- A. Provide the programmer with a list of programming standards.
- B. Request that the programmer set up an informal walkthrough with key members of the team.
- C. Inform the programmer that a review is not necessary.
- D. Ask the programmer to compile it and run some tests to see if it can be broken.

Correct Answer: B

QUESTION 31

What is a program specification document?

- A. A description of what the program does and how it can be used
- B. A description of how the program does its work
- C. The pseudocode of the program
- D. The history of changes of the program and how it was used

Correct Answer: A

QUESTION 32

The following function converts a character string to uppercase. What is the best way to improve the performance?

```
SET_TO_UPPERCASE: PROC(CHARSTR) RETURNS (CHAR(120) VARYING); DCL CHARSTR CHAR
(120) VARYING;
DCL UCCHAR(26) INIT('ASCDEFHGHIJKLMNOPQRSTUVWXYZ');
DCL LCCHAR(26) INIT('abcdefghijklmnopqrstuvxyz');
DCL RCHAR(120) VARYING INIT("");
R = TRANSLATE(CHARSTR,UC,LC);
RETURN(R);
END SET_TO_UPPERCASE;
```

- A. Use VALUE on the declares for UC and LC.
- B. Declare variables UC and LC as STATIC.
- C. Use the UPPERCASE function instead of SET_TO_UPPERCASE.
- D. RETURN(TRANSLATE(CHARSTR,UC,LC)) to avoid the unnecessary assignment to R.

Correct Answer: C

QUESTION 33

What happens after executing the following code, assuming the input file has more than 1 record?

```
DCL INPFILE FILE RECORD INPUT ENV(VB RECSIZE(100)); DCL P PTR; DCL B CHAR(100) VARYING
BASED(P);
DCL C CHAR(110) VARYING BASED(P);

READ FILE(INPFILE) SET(P);
```

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