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# **SAS Institute**

## **A00-282**

**SAS Certified Professional - Clinical Trials Programming  
Using SAS 9.4**



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### **Product Version**

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# Latest Version: 6.0

## Question: 1

The following question will ask you to provide a line of missing code. The following program is submitted to output observations from data set ONE that have more than one record per patient.

```
proc sort data=one out=two;
  by subjid;
run;
data two;
  set two;
  <insert code here>
  if (first.subjid ne 1 or last.subjid ne 1) then output ;
run ;
```

Please enter the line of code that will correctly complete the program

Note:-Case is ignored. Do not add leading or trailing spaces to your answer.

Response:

- A. BYSUBJID;  
BYSUBJID;
- B. id;  
PTON run;
- C. BYSUBJID;
- D. BYSUBJID;  
run;

**Answer: C**

## Question: 2

Given the following data set:

SUBJID	GENDER	AGE	TRT
4	M	63	3
4	M	63	1
5	F	72	4
1	F	45	1
3	M	57	2
2	F	39	1
3	M	57	2

The following output data set was produced:

SUBJID	GENDER	AGE	TRT
3	M	57	1
3	M	57	1
4	M	63	2
4	M	63	0
5	F	72	3

Which SAS program produced this output?

Response:

- A. proc sort data=one(where=(age>50)) out=two;  
by subjid;  
run;
- B. proc sort data=one(if=(age>50)) out=two;  
by subjid;  
run;
- C. proc sort data=one out=two;  
where=(age>50) ;  
by subjid;  
run;
- D. proc sort data=one out=two;  
if age>50;  
by subjid;  
run;

**Answer: A**

### Question: 3

Vital Signs are a component of which SDTM class?

Response:

- A. Findings
- B. Interventions
- C. Events
- D. Special Purpose

**Answer: A**

### Question: 4

You are using SAS software to create reports that will be output in a Rich Text Format so that it may be read by Microsoft Word. The report will span multiple pages and you want to display a '(Continued)' text at the end of each page when a table spans multiple pages.

Which statement can you add to the SAS program to ensure the inclusion of the '(Continued)' text?

Response:

- A. ods rtf file='report.rtf';
- B. ods tagsets.rtf file='report.rtf';
- C. ods tagsets.rtf file='report.rtf' break='Continued';
- D. ods file open='report.rtf' type=rtf break='(Continued)';

**Answer: B**

## Question: 5

The following SAS program is submitted:

```
proc univariate data=work.STUDY;
by VISIT;
class REGION TREAT
var HBA1C GLUCOS;
run;
```

You want to store all calculated means and standard deviations in one SAS data set. Which statement must be added to the program?

Response:

- A. output mean std;
- B. ods output mean=m1 m2 std=s1 s2;
- C. output out=WORK.RESULTS mean=m1 m2 std=s1 s2;
- D. ods output out=WORK.RESULTS mean=m1 m2 std=s1 s2;

**Answer: C**

## Question: 6

The following SAS program is submitted:

```
%let member1=Demog;
%let member2=Adverse;
%let Root=member;
%let Suffix=2;
%put &&&Root&Suffix;
```

What is written to the SAS log?

Response:

- A. &member2
- B. Adverse
- C. &&&Root&Suffix
- D. WARNING: Apparent symbolic reference ROOT2 not resolved.

**Answer: B**

## Question: 7

This question will ask you to provide a line of missing code. Given the data set WORK.STUDYDATA with the following variable list:

```
# Variable Type Len Label
2 DAY Char 8 Study Day
3 DIABP Num 8 Diastolic Blood Pressure
1 TRT Char 8 Treatment
```

The following SAS program is submitted:

```
proc means data=WORK.STUDYDATA noprint;
<insert code here>
class TRT DAY;
var DIABP;
output out=WORK.DIAOUT mean=meandp;
run;
```

WORK.DIAOUT should contain:

- the mean diastolic blood pressure values for every day by treatment group
- the overall mean diastolic blood pressure for each treatment group

Which statement correctly completes the program to meet these requirements?

Response:

- A. where trt or trt\*day;
- B. types trt trt\*day;
- C. by trt day;
- D. id trt day;

**Answer: B**

## Question: 8

What is the main focus of Good Clinical Practices (GCP)?

Response:

- A. harmonized data collection
- B. standard analysis practices
- C. protection of subjects
- D. standard monitoring practices

**Answer: C**

## Question: 9

Given the following data set WORK.DEMO:

PTID	Sex	Age	Height	Weight
689574	M	15	80.0	115.5
423698	F	14	65.5	90.0
758964	F	12	60.3	87.0
493847	F	14	62.8	98.5
653347	M	14	63.5	102.5
500029	M	12	57.3	83.0
513842	F	12	59.8	84.5
515151	F	15	62.5	112.5
522396	M	13	62.5	84.0
534787	M	12	59.0	99.5
875642	F	11	51.3	50.5
879653	F	15	75.3	105.0
542369	F	12	56.3	77.0
698754	F	11	50.5	70.0
656423	M	16	72.0	150.0
785412	M	12	67.8	121.0
785698	M	16	72.0	110.0
763284	M	11	57.5	85.0
968743	M	14	60.5	85.0
457826	M	18	74.0	165.0

The following SAS program is submitted:

```
proc print data=WORK.DEMO(firstobs=5 obs=10);
where Sex='M';
run;
```

How many observations will be displayed?

Response:

- A. 4
- B. 6
- C. 7
- D. 8

**Answer: C**

## Question: 10

What is the primary purpose of programming validation?

Response:

- A. Ensure that the output from both the original program and the validation program match.
- B. Efficiently ensure any logic errors are discovered early in the programming process.
- C. Justify the means used to accomplish the outcome of a program and ensure its accurate representation of the original data.

D. Document all specifications pertaining to programmed output and ensure all were reviewed during the programming process.

**Answer: C**

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