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# SAS Institute

## A00-280

### Clinical Trials Programming Using SAS 9



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## Question: 1

This question will ask you to provide a line of missing code. The following SAS program is submitted:

```
proc format ;
valuedayfmt 1='Sunday'
2='Monday'
3='Tuesday'
4='Wednesday'
5='Thursday'
6='Friday'
7='Saturday';
run;
proc report data=diary;
column subject day var1 var2;
<insert code here>
run;
```

In the DIARY data set, the format DAYFMT is assigned to the variable DAY. Which statement will cause variable DAY to be printed in its unformatted order?

Response:

- A. define day / order 'Day';
- B. define day / order order=data 'Day';
- C. define day / order noprint 'Day';
- D. define day / order order=internal 'Day';

**Answer: D**

## Question: 2

The following output is displayed:

Table of GENDER by ANSWER

GENDER	ANSWER	Frequency	1	2	8	Total
1	1	12	12	22	5	39
2	2	22	22	8	3	33
Total		34	30	8	72	

Frequency Missing = 4

Which SAS program created this output?

Response:

```
A. proc freq data=WORK.TESTDATA;  
tables gender * answer / nocolnorownopercents;  
run;  
B. proc freq data=WORK.TESTDATA;  
tables answer * gender / nocolnorownopercents;  
run;  
C. proc freq data=WORK.TESTDATA;  
tables gender * answer / nocolnorownopercents missing;  
run;  
D. proc freq data=WORK.TESTDATA;  
tables answer * gender / nocolnorownopercents missing;  
run;
```

**Answer: A**

### Question: 3

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 trtrtrt\*day;
- C. by trt day;
- D. id trt day;

**Answer: B**

## Question: 4

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

**Answer: A**

## Question: 5

The following SAS program is submitted:

```
procunivariate 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

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: 7

Given the data set WORK.BP with the following variable list:

#	Variable	Type	Len	Label
1	DIABP	Num	8	Diastolic Blood Pressure
2	PTNO	Char	4	Patient Number
3	SYSBP	Num	8	Systolic Blood Pressure

The following SAS program is submitted:

```
ods select ExtremeObs;
proc univariate data=WORK.BP;
  var DIABP;
  id PTNO;
run;
```

Which output will be created by the program?

C A.

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
68	190	119	51

C B.

Extreme Observations					
Lowest			Highest		
Value	PTNO	Obs	Value	PTNO	Obs
68	6007	190	119	2710	51

C C.

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
62	129	112	60
63	8	114	4
63	133	114	147
65	22	115	287
68	190	119	51

C D.

Extreme Observations					
Lowest			Highest		
Value	PTNO	Obs	Value	PTNO	Obs
62	5023	129	112	3020	60
63	1890	8	114	1701	4
63	5029	133	114	5109	147
65	2201	22	115	8077	287
68	6007	190	119	2710	51

Response:

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer: D**

## Question: 8

The following SAS program is submitted:  
proc sort data=SASUSER.VISIT out=PSORT;

by code descending date cost;  
run;

Which statement is true regarding the submitted program?

Response:

- A. The descending option applies to the variable CODE.
- B. The variable CODE is sorted by ascending order.
- C. The PSORT data set is stored in the SASUSER library.
- D. The descending option applies to the DATE and COST variables.

**Answer: D**

## Question: 9

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.

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: 10

Review the following procedure format:

```
PROC TTEST date=date;  
class group-variable;  
var variable;  
run;
```

What is the required type of data for the variable in this procedure?

Response:

- A. Character
- B. Continuous
- C. Categorical
- D. Treatment

**Answer: B**

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