



**Vendor:** SAS

**Exam Code:** A00-281

**Exam Name:** Clinical Trials Programming Using SAS 9 -  
Accelerated Version

**Version:** DEMO

### QUESTION 1

Given the following data at WORK.DEMO:

PTID	Sex	Age	Height	Weight
457892	M	14	69.0	112.5
464389	F	13	56.5	84.0
478865	F	13	65.3	98.0
483476	F	14	62.8	102.5
493847	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
536777	F	11	51.3	50.5
546823	F	14	64.3	90.0
556677	F	12	56.3	77.0
565699	F	15	66.5	112.0
578222	M	16	72.0	150.0
635445	M	12	64.8	128.0

Which SAS program prints only the first 5 males in this order from the data set?

- A. 

```
proc sort data=WORK.DEMO out=out;
  by sex;
run;
proc print data= out (obs=5)
;
run;
```
- B. 

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

```
proc print data=WORK.DEMO(where=(sex='M'))
;
  where obs<=5;
run;
```
- D. 

```
proc sort data=WORK.DEMO out=out;
  by sex descending;
run;
proc print data= out (obs=5)
;
run;
```

**Answer: B**

### QUESTION 2

Which SAS program will apply the data set label 'Demographics' to the data set named DEMO.?

- A. 

```
data demo (label='Demographics')
;
  set demo;
run;
```
- B. 

```
data demo;
```

- ```
set demo (label='Demographics')
;
run;
```
- C. `data demo (label 'Demographics')`  
`;`  
`set demo;`  
`run;`
- D. `data demo;`  
`set demo;`  
`label demo= 'Demographics'`  
`;`  
`run;`

**Answer: A**

### QUESTION 3

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?

- 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: B**

### QUESTION 4

What information can be found in the SAS Dictionary tables? (Choose two.)

- A. datasets contained within a specified library
- B. values contained within a specified format
- C. variables contained within a specified dataset
- D. values contained within a specified variable

**Answer: AC**

### QUESTION 5

Given the following data set:

| subjid | trt | result | dtime | age |
|--------|-----|--------|-------|-----|
| 1      |     | CR     | 0     | 56  |
| 2      | A   | PD     | 1     | 52  |
| 3      | B   | PR     | 1     | 47  |
| 4      | B   | CR     | 2     | 29  |
| 5      | 1   | SD     | 1     | 39  |
| 6      | C   | SD     | 3     | 21  |
| 7      | C   | PD     | 2     | 90  |
| 1      | A   | CR     | 0     | 43  |
| 3      | B   | PD     | 1     | 56  |

The following output was generated from PROC PRINT.

| Obs | subjid | trt | result | dtime | age |
|-----|--------|-----|--------|-------|-----|
| 1   | 1      |     | CR     | 0     | 56  |
| 2   | 2      | A   | PD     | 1     | 52  |
| 3   | 3      | B   | PR     | 1     | 47  |
| 4   | 4      | B   | CR     | 2     | 29  |
| 5   | 5      | 1   | SD     | 1     | 39  |
| 6   | 6      | C   | SD     | 3     | 21  |
| 7   | 7      | C   | PD     | 2     | 90  |

Which program was used to prepare the data for this PROC PRINT output?

- A. proc sort data=one out=two;  
by subjid;  
run;
- B. proc sort data=one out=two nodupkey;  
by subjid;  
run;
- C. proc sort data=one out=two nodup;  
by subjid;  
run;
- D. proc sort data=one out=two nodupkey;  
by subjid trt;  
run;

**Answer: B**

#### QUESTION 6

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

```
proc freq data=dist;
  <insert code here>
run;
```

to create the following output:

The FREQ Procedure  
Table of site by group

| site      | group |       |       |        |
|-----------|-------|-------|-------|--------|
| Frequency |       |       |       |        |
| Percent   |       |       |       |        |
| Row Pct   | Trt1  | Trt2  | Trt3  | Total  |
| -----+    |       |       |       |        |
| SITEA     | 15    | 56    | 172   | 243    |
|           | 2.80  | 10.47 | 32.15 | 45.42  |
|           | 6.17  | 23.05 | 70.78 |        |
| -----+    |       |       |       |        |
| SITEB     | 24    | 74    | 194   | 292    |
|           | 4.49  | 13.83 | 36.26 | 54.58  |
|           | 8.22  | 25.34 | 66.44 |        |
| -----+    |       |       |       |        |
| Total     | 39    | 130   | 366   | 535    |
|           | 7.29  | 24.30 | 68.41 | 100.00 |

Which statement is required to produce this output?

- A. TABLES site\*group /nocol;
- B. TABLES site\*group /norow;
- C. TABLES site\*group;
- D. TABLES site\*group /nocol norow;

**Answer: A**

#### QUESTION 7

Which statement correctly adds a label to the data set?

- A. DATA two Label="Subjects having duplicate observations" ;  
set one;  
run;
- B. DATA two;  
Label="Subjects having duplicate observations" ;  
set one;  
run;
- C. DATA two;  
set one;  
Label dataset="Subjects having duplicate observations"; run;
- D. DATA two(Label="Subjects having duplicate observations") ;  
set one;  
run;

**Answer: D**

### QUESTION 8

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?

- 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 9

The following SAS program is submitted:

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

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

- 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 10

Which program will report all created output objects in the log?

- A. 

```
proc ttest data=WORK.DATA1 ods=trace;
class TREAT;
var RESULTS;
run;
```
- B. 

```
ods trace on;
proc ttest data=WORK.DATA1;
class TREAT;
var RESULTS;
run;
```
- C. 

```
ods trace=log;
proc ttest data=WORK.DATA1;
class TREAT;
var RESULTS;
run;
```
- D. 

```
ods trace log;
proc ttest data=WORK.DATA1;
class TREAT;
var RESULTS;
run;
```

**Answer: B**

#### QUESTION 11

Review the following procedure format:

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

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

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

**Answer: B**

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