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Clinical Trials Programming Using SAS 9 Accelerated Version

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DEMO
VERSION

(LIMITED CONTENT)

Questions
& Answers

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: A, C

Question: 5

Given the following data set:

| subjid | trt | result | dttime | 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 | dttime | 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

CORRECT TEXT

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 ;
```

In the space below, enter the line of code that will correctly complete the program (Case is ignored. Do not add leading or trailing spaces to your answer.).

Answer: BYSUBJID;
BYSUBJID;

Question: 10

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?

☐ A.

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

☐ B.

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

☐ 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 |

☐ 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 |

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

Answer: D

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