



A00-202^{Q&As}

SAS advanced programming exam

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**QUESTION 1**

The variable attributes of SAS data sets ONE and TWO are shown below:

ONE TWO

```
# Variable Type Len Pos # Variable Type Len Pos 2 sales Num 8 8 2 budget Num 8 8 1 year Num 8 0 3 sales Char 8 16  
1 year Num 8 0
```

Data set ONE contains 100 observations. Data set TWO contains 50 observations. Both data sets are sorted by the variable YEAR. The following SAS program is submitted:

```
data three;
```

```
merge one two;
```

```
by year;
```

```
run;
```

Which one of the following is the result of the program execution?

- A. No messages are written to the SAS log.
- B. ERROR and WARNING messages are written to the SAS log.
- C. Data set THREE is created with two variables and 50 observations.
- D. Data set THREE is created with three variables and 100 observations.

Correct Answer: B

QUESTION 2

The following SAS program is submitted:

```
%let first = yourname;
```

```
%let last = first;
```

```
%put andandandlast;
```

Which one of the following is the result in the log of the %PUT statement?

- A. first
- B. andfirst
- C. yourname
- D. andyourname

Correct Answer: C

**QUESTION 3**

Which one of the following is an advantage of creating and using a SAS DATA step view?

- A. It can store an index.
- B. It always accesses the most current data.
- C. It works quickly through multiple passes of the data.
- D. It is useful when the underlying data file structure changes.

Correct Answer: B

QUESTION 4

Assume today is Tuesday, July 23, 2002. Which one of the following statements submitted at the beginning of a SAS session assigns the value Tuesday, July 23, 2002 to the macro variable START?

- A. %let start = today(),weekdate.;
- B. %let start = today(),format=weekdate.;
- C. %let start = %sysfunc(today(),weekdate.);
- D. %let start = %sysfunc(%today(),weekdate.);

Correct Answer: C

QUESTION 5

The following SAS program is submitted:

```
data one;  
do i = 1 to 10;  
ptobs = ceil(ranuni(0) * totobs);  
set temp point = ptobs  
nobs = totobs;  
output;  
end;
```



stop;

run;

The SAS data set TEMP contains 2,500,000 observations. Which one of the following represents the possible values for PTOBS?

- A. any integer between 1 and 10
- B. any real number between 0 and 1
- C. any integer between 1 and 2,500,000
- D. any real number between 1 and 2,500,000

Correct Answer: C

QUESTION 6

Which one of the following is an advantage of creating and using a SAS DATA step view?

- A. It can store an index.
- B. It always accesses the most current data.
- C. It works quickly through multiple passes of the data.
- D. It is useful when the underlying data file structure changes.

Correct Answer: B

QUESTION 7

Given the following SAS data sets ONE and TWO:

ONE TWO OBS COMMON X OBS COMMON Y ----- 1 A 10 1 A 1 2 A 13 2 A 3 3
A 14 3 B 4 4 B 9 4 B 2 5 C 8 5 C 5 6 C 14

The following SAS DATA step is submitted: data combine; set one; set two; run; Which one of the following represents the data values stored in data set COMBINE?

- A. OBS COMMON X Y

1 A 10 1

2 A 13 3

3 A 14 3

4 B 9 4



5 B 9 2

6 C 8 5

7 C 14 5

B. OBS COMMON X Y

1 A 10 1

2 A 13 3

3 B 9 4

4 C 8

C. OBS COMMON X Y

1 A 10 1

2 A 13 3

3 B 14 4

4 B 9 2

5 C 8 5

D. OBS COMMON X Y

1 A 10 1

2 A 13 1

3 A 14 1

4 A 10 3

5 A 13 3

6 A 14 3

7 B 9 4

8 B 9 2

9 C 8 5

10 C 14 5

Correct Answer: C

QUESTION 8



The following SAS program is submitted:

```
%let var = chicago, 1;  
  
data a;  
  
var = '\\new york, 2\\';  
  
newvar = %scan(andvar,2,%str());  
  
run;
```

Which one of the following explains why the program fails to execute?

- A. The %STR() is invalid syntax.
- B. The %SCAN function does not exist.
- C. The %SCAN function has too many arguments.
- D. The macro variable VAR does not get created properly.

Correct Answer: C

QUESTION 9

Given the following SAS data set ONE:

ONE COUNTRY CITY VISIT

USA BOSTON 10

UK LONDON 5

USA DALLAS

UK MARLOW 10

USA BOSTON 20

UK LONDON 15

USA DALLAS 10

The following SAS program is submitted:

```
proc sql;  
  
select country, city, sum(visit) as TOTAL  
  
from one group by country, city order by country, total desc; quit;
```

Which one of the following reports is generated?



A. COUNTRY CITY TOTAL

UK MARLOW 10

UK LONDON 20

USA BOSTON 50

USA DALLAS 20

B. COUNTRY CITY TOTAL

UK LONDON 20

UK MARLOW 10

USA BOSTON 50

USA DALLAS 20

C. COUNTRY CITY TOTAL

USA BOSTON 50

USA DALLAS 20

UK LONDON 20

UK MARLOW 10

D. COUNTRY CITY TOTAL

UK MARLOW 10

UK LONDON 20

USA DALLAS 20

USA BOSTON 50

Correct Answer: B

QUESTION 10

Given the following SAS data set ONE:

ONE JOB LEVEL SALARY ACC 2 300 SEC 1 100 SEC 2 200 MGR 3 700 ACC 1 . ACC 3 . MGR 2 400

The following SAS data set TWO is created:

TWO JOB LEVEL BONUS

ACC 2 30 MGR 3 70 MGR 2 40



Which one of the following SAS programs creates data set TWO?

- A. proc sql; create table two as select job, level, salary * 0.1 as bonus from one where bonus > 20; quit;
- B. proc sql; create table two as select job, level, salary * 0.1 as bonus from one where salary > 20; quit;
- C. proc sql; create table two as select job, level, salary * 0.1 as bonus from one where calculated salary * 0.1 > 20; quit;
- D. proc sql; create table two as select job, level, salary * 0.1 as bonus from one where calculated bonus > 20; quit;

Correct Answer: D

QUESTION 11

The following SAS program is submitted:

```
options yearcutoff = 1950;
```

```
%macro y2kopt(date);
```

```
%if anddate >= 14610 %then %do;
```

```
options yearcutoff = 2000;
```

```
%end;
```

```
%else %do;
```

```
options yearcutoff = 1900;
```

```
%end;
```

```
%mend;
```

```
data _null_ ;
```

```
date = "01jan2000"d;
```

```
call symput("date",left(date));
```

```
run;
```

```
%y2kopt(anddate)
```

The SAS date for January 1, 2000 is 14610 and the SAS system option for YEARCUTOFF is set to 1920 prior to submitting the above program.

Which one of the following is the value of YEARCUTOFF when the macro finishes execution?

- A. 1900
- B. 1920



- C. 1950
- D. 2000

Correct Answer: D

QUESTION 12

Which one of the following statements is true?

- A. The WHERE statement can be executed conditionally as part of an IF statement.
- B. The WHERE statement selects observations before they are brought into the PDV.
- C. The subsetting IF statement works on observations before they are read into the PDV.
- D. The WHERE and subsetting IF statements can be used interchangeably in all SAS programs.

Correct Answer: B

QUESTION 13

Given the following SAS data set ONE:

ONE

CATEGORY AGE SALARY BONUS

----- M 28 200 .

M 25 100 10

F 100 50

F 25 200 10

The following SAS program is submitted:

```
proc sql;
```

```
create table two as
```

```
select category, salary + bonus as EARNINGS
```

```
from one; quit;
```

Which one of the following represents the data values stored in the data set TWO?

- A. CATEGORY EARNINGS

M 200



M 110

F 150

F 210

B. CATEGORY EARNINGS

M .

M 110

F 150

F 210

C. CATEGORY SALARY BONUS EARNINGS ----- M 200 . 200 M 100 10
110 F 100 50 150 F 200 10 210

D. CATEGORY SALARY BONUS EARNINGS

M 200 . .

M 100 10 110

M 200 . 200

M 100 10 110

F 100 50 150

F 200 10 210

Correct Answer: B

QUESTION 14

Given the following SAS data sets ONE and TWO:

ONE TWO

YEAR QTR BUDGET YEAR QTR SALES

----- 2001 3 500 2001 4 300

2001 4 400 2002 1 600

2002 1 700

The following SAS program is submitted:

```
proc sql;
```



select one.*, sales

from one left join two

on one.year = two.year;

quit;

Which one of the following reports is generated?

A. YEAR QTR BUDGET SALES

2001 3 500 .

B. YEAR QTR BUDGET SALES

2001 4 400 300

2002 1 700 600

C. YEAR QTR BUDGET SALES

2001 3 50 .

2001 4 400 300

2002 1 700 600

D. YEAR QTR BUDGET SALES

2001 3 500 300

2001 4 400 300

2002 1 700 600

Correct Answer: D

QUESTION 15

The following SAS program is submitted:

```
data two;
```

```
y = \\2\\;
```

```
run;
```

```
%let x = 10;
```

```
%let var = y;
```

```
data one;
```



```
set two (keep = andvar);
```

```
z = andvar * andx;
```

```
run;
```

Which one of the following is the value of the variable Z when the program finishes execution?

- A. _ERROR_
- B. 20 (as a numeric)
- C. 20 (as a character)
- D. . (missing numeric)

Correct Answer: B

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