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Exam : **A00-201**

Title : SAS base programming
exam

Version : DEMO

1. The following SAS program is submitted:

```
proc means data = sasuser.houses std mean max;  
    var sqfeet; run;
```

Which one of the following is needed to display the standard deviation with only two decimal places?

- A. Add the option MAXDEC = 2 to the MEANS procedure statement.
- B. Add the statement MAXDEC = 7.2; in the MEANS procedure step.
- C. Add the statement FORMAT STD 7.2; in the MEANS procedure step.
- D. Add the option FORMAT = 7.2 option to the MEANS procedure statement.

Answer: A

2. Which one of the following is true when SAS encounters a data error in a DATA step?

- A. The DATA step stops executing at the point of the error, and no SAS data set is created.
- B. A note is written to the SAS log explaining the error, and the DATA step continues to execute.
- C. A note appears in the SAS log that the incorrect data record was saved to a separate SAS file for further examination.
- D. The DATA step stops executing at the point of the error, and the resulting DATA set contains observations up to that point.

Answer: B

3. The following SAS program is submitted:

```
data work.total;  
    set work.salary(keep = department wagerate);  
    by department;  
    if first.department then payroll = 0;  
    payroll + wagerate;  
    if last.department;  
run;
```

The SAS data set WORK.SALARY, currently ordered by DEPARTMENT, contains 100 observations for each of 5 departments.

Which one of the following represents how many observations the WORK.TOTAL data set contains?

- A. 5
- B. 20
- C. 100
- D. 500

Answer: A

4. The following SAS program is submitted:

```
data work.retail;
    cost = '20000';
    total = .10 * cost;
run;
```

Which one of the following is the value of the variable TOTAL in the output data set?

- A. 2000
- B. '2000'
- C. . (missing numeric value)
- D. '' (missing character value)

Answer: A

5. The following SAS program is submitted:

```
libname sasdata 'SAS-data-library';
data test;
    set sasdata.chemists;
    if jobcode = 'chem3'
        then description = 'Senior Chemist';
    else description = 'Unknown';
run;
```

A value for the variable JOBCODE is listed below:

```
JOBCODE
CHEM3
```

Which one of the following values does the variable DESCRIPTION contain?

- A. chem3
- B. Unknown
- C. Senior Chemist
- D. '' (missing character value)

Answer: B

6. The following SAS program is submitted:

```
data work.month;
    date = put('13mar2000'd,ddmmyy10.);
run;
```

Which one of the following represents the type and length of the variable DATE in the output data set?

- A. numeric, 8 bytes
- B. numeric, 10 bytes

- C. character, 8 bytes
- D. character, 10 bytes

Answer: D

7. The following SAS program is submitted:

```
data work.flights;
    destination = 'CPH';
    select(destination);
        when('LHR') city = 'London';
        when('CPH') city = 'Copenhagen';
        otherwise;
    end;
run;
```

Which one of the following is the value of the CITY variable?

- A. London
- B. Copenh
- C. Copenhagen
- D. '' (missing character value)

Answer: B

8. The following SAS program is submitted and reads 100 records from a raw data file:

```
data work.total;
    infile 'file-specification' end = eof;
    input name $ salary;
    totalsal + salary;
    <insert IF statement here>
run;
```

Which one of the following IF statements writes the last observation to the output data set?

- A. if end = 0;
- B. if eof = 0;
- C. if end = 1;
- D. if eof = 1;

Answer: D

9. Click the Exhibit button to view a listing of the SASUSER.HOUSES data set.

The following SAS program is submitted:

```
proc report data = sasuser.houses nowd headline;
```

```

column style price;
where price lt 100000;
<insert DEFINE statement here>
define price / mean width = 9;
title;
run;

```

The following output is created by the REPORT procedure:

style	price
CONDO	\$79,700
RANCH	\$68,575
SPLIT	\$77,983
TWOSTORY	\$62,550

Which one of the following DEFINE statements completes the above program and produces the above output?

Obs	style	sqfeet	bedrooms	baths	street	price
1	RANCH	1250	2	1.0	Sheppard Avenue	\$64,000
2	SPLIT	1190	1	1.0	Rand Street	\$65,850
3	CONDO	1400	2	1.5	Market Street	\$80,050
4	TWOSTORY	1810	4	3.0	Garris Street	\$107,250
5	RANCH	1500	3	3.0	Kemble Avenue	\$86,650
6	SPLIT	1615	4	3.0	West Drive	\$94,450
7	SPLIT	1305	3	1.5	Graham Avenue	\$73,650
8	CONDO	1390	3	2.5	Hampshire Avenue	\$79,350
9	TWOSTORY	1040	2	1.0	Sanders Road	\$55,850
10	CONDO	2105	4	2.5	Jeans Avenue	\$127,150
11	RANCH	1535	3	3.0	State Highway	\$89,100
12	TWOSTORY	1240	2	1.0	Fairbanks Circle	\$69,250
13	RANCH	720	1	1.0	Nicholson Drive	\$34,550
14	TWOSTORY	1745	4	2.5	Highland Road	\$102,950
15	CONDO	1860	2	2.0	Arcata Avenue	\$110,700

- A. define style / order width = 9;
- B. define style / group width = 9;
- C. define style / across width = 9;
- D. define style / display width = 9;

Answer: B

10. The following SAS program is submitted:

```

data work.staff;
    JobCategory = 'FA';
    JobLevel = '1';
    JobCategory = JobCategory || JobLevel;
run;

```

Which one of the following is the value of the variable JOBCATEGORY in the output data set?

- A. FA
- B. FA1
- C. FA 1
- D. ' ' (missing character value)

Answer: A

11. The SAS data set named WORK.TEST is listed below:

<u>capacity</u>	<u>airplanetype</u>	<u>staff</u>
150	Large	10

Which one of the following SAS programs created this data set?

A. data work.test;

capacity = 150;

if 100 le capacity le 200 then

airplanetype = 'Large' and staff = 10;

else airplanetype = 'Small' and staff = 5;

run;

B. data work.test;

capacity = 150;

if 100 le capacity le 200 then

do;

airplanetype = 'Large';

staff = 10;

end;

else

do;

airplanetype = 'Small';

staff = 5;

end;

run;

C. data work.test;

capacity = 150;

if 100 le capacity le 200 then

do;

airplanetype = 'Large';

staff = 10;

```
else
do;
airplanetype = 'Small';          airplanetype = 'Small';
staff = 5;
end;
run;
D. data work.test;D.data work.test;
capacity = 150;
if 100 le capacity le 200 then;
airplanetype = 'Small';          airplanetype = 'Small';
staff = 5;
else;
airplanetype = 'Large';          airplanetype = 'Large';
staff = 10;
run;
```

Answer: B

12. The following SAS program is submitted:

```
libname rawdata1 'location of SAS data library';
filename rawdata2 'location of raw data file';
data work.testdata;
    infile <insert item here>;
    input sales1 sales2;
run;
```

Which one of the following is needed to complete the program correctly?

- A. rawdata1
- B. rawdata2
- C. 'rawdata1'
- D. 'rawdata2'

Answer: B

13. The following SAS SORT procedure step generates an output data set:

```
proc sort data = sasuser.houses out = report;
    by style;
run;
```

In which library is the output data set stored?

- A. WORK
- B. REPORT
- C. HOUSES
- D. SASUSER

Answer: A

14. A raw data record is shown below:

07Jan2002

Which one of the following informats would read this value and store it as a SAS date value?

- A. date9.
- B. ddmonyy9.
- C. ddMMMyy9.
- D. ddmmyyyy9.

Answer: A

15. The following SAS DATA step is submitted:

```
libname temp 'SAS-data-library';
```

```
data temp.report;
```

```
    set sasuser.houses;
```

```
    newvar = price * 1.04;
```

```
run;
```

Which one of the following statements is true regarding the program above?

- A. The program is reading from a temporary data set and writing to a temporary data set.
- B. The program is reading from a temporary data set and writing to a permanent data set.
- C. The program is reading from a permanent data set and writing to a temporary data set.
- D. The program is reading from a permanent data set and writing to a permanent data set.

Answer: D

16. A raw data record is listed below:

----|----10---|----20---|----30

Printing 750

The following SAS program is submitted:

```
data bonus;
```

```
    infile 'file-specification';
```

```
    input dept $ 1 - 11 number 13 - 15;
```

```
    <insert code here>
```

```
run;
```

Which one of the following SAS statements completes the program and results in a value of 'Printing750' for the DEPARTMENT variable?

- A. department = trim(dept) || number;
- B. department = dept || input(number,3.);
- C. department = trim(dept) || put(number,3.);
- D. department = input(dept,11.) || input(number,3.);

Answer: C

17. The contents of two SAS data sets named EMPLOYEE and SALARY are listed below:

EMPLOYEE		SALARY	
<u>name</u>	<u>age</u>	<u>name</u>	<u>salary</u>
Bruce	30	Bruce	40000
Dan	35	Bruce	35000
		Dan	37000
		Dan	.

The following SAS program is submitted:

```
data work.empsalary;
    merge work.employee (in = inemp)
          work.salary (in = insal);
    by name;
    if inemp and insal;
```

run;

How many observations will the data set WORK.EMPSALARY contain?

- A. 2
- B. 4
- C. 5
- D. 6

Answer: B

18. Which one of the following statements is true regarding the name of a SAS array?

- A. It is saved with the data set.
- B. It can be used in procedures.
- C. It exists only for the duration of the DATA step.
- D. It can be the same as the name of a variable in the data set.

Answer: C

19. The contents of the raw data file FURNITURE are listed below:

```
----|----10---|----20---|----30
```

chair,,table

chair,couch,table

The following SAS program is submitted:

```
data stock;
    infile 'furniture' dsd;
    input item1 $ item2 $ item3 $;
run;
```

Which one of the following is the value of the variable named ITEM2 in the first observation of the output data set?

- A. table
- B. ,table
- C. . (missing numeric value)
- D. ' ' (missing character value)

Answer: D

20. The contents of the raw data file CALENDAR are listed below:

```
----|----10---|----20---|----30
01012000
```

The following SAS program is submitted:

```
data test;
    infile 'calendar';
    input @1 date mmddy10.;
    if date = '01012000'd then event = 'January 1st';
run;
```

Which one of the following is the value of the EVENT variable?

- A. 01012000
- B. January 1st
- C. . (missing numeric value)
- D. The value can not be determined as the program fails to execute due to errors.

Answer: D