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SAS Base Programming for SAS 9

SAS Institute A00-211

Version Demo

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Topic Break Down

| Topic | No. of Questions |
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| Topic 1, Volume A | 99 |
| Topic 2, Volume B | 171 |
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QUESTION NO: 1

Given the following raw data record:

07Jan2005

Which INFORMAT reads this raw data and stores it as a SAS date value?

- A. dmy9.
- B. date9.
- C. ddMMMyy9.
- D. ddmmmyyyy9.

ANSWER: B

QUESTION NO: 2

The following code was modified to generate the results further below:

```
proc format;
  value agegrp
    low-12 = 'Pre-Teen'
    13-high = 'Teen';
run;

proc means data=SASHELP.CLASS;
  var Height;
  class Sex Age;
  format Age agegrp.;
run;
```

The following results were generated to display only specific statistics and limit the decimals with the modification:

Analysis Variable : Height

| Sex | Age | N Obs | Minimum | Maximum | Mean |
|-----|----------|----------|---------|---------|------|
| F | Pre-Teen | 3 | 51.3 | 59.8 | 55.8 |
| | Teen | 6 | 56.5 | 66.5 | 63.0 |
| M | Pre-Teen | 4 | 57.3 | 64.8 | 59.7 |
| | Teen | 6 | 62.5 | 72.0 | 66.8 |

Which statement below was modified or added to generate the results above?

- A. var Height / nobs min max mean maxdec=1;
- B. proc means data=SASHELP.CLASS maxdec=1 ;
- C. proc means data=SASHELP.CLASS min max mean maxdec=1;
- D. output nobs min max mean maxdec=1;

ANSWER: C

QUESTION NO: 3

Given the contents of the raw data file EMPLOYEE:

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

Alan 19/2/2004 ACCT

Rob 22/5/2004 MKTG

MaryJane 14/3/2004 EDUC

The following SAS program is submitted: data emps; infile 'employee'; input@1 name\$

@15 date

@25 department\$; run;

Which INFORMAT correctly completes the program?

- A. date9.
- B. ddmmyyy9.
- C. ddmmy10.

D. ddmmyyyy10.

ANSWER: C

QUESTION NO: 4

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

```
capacity airplanetype staff 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'; staff = 5; end; run;

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

ANSWER: B

QUESTION NO: 5

Given the SAS data set PRICES:

```
PRICES
```

```
prodid price
```

```
K12S 5.10 producttype
```

```
NETWORK sales
```

```
15 returns
```

```
2
```

```
B132S 2.34 HARDWARE 300 10
```

```
R18KY21.29 SOFTWARE 25 5
```

3KL8BY 6.37 HARDWARE 125 15

DY65DW 5.60 HARDWARE 45 5 DGTY23 4.55 HARDWARE 67 2 The following SAS program is submitted:

```
data hware inter soft; set prices (keep = producttype price); if price le 5.00;
```

```
if producttype = 'HARDWARE' then output HWARE; else if producttype = 'NETWORK' then output INTER; else if producttype = 'SOFTWARE' then output SOFT; run;
```

How many observations does the HWARE data set contain?

- A. 0
- B. 2
- C. 3
- D. 4

ANSWER: B

QUESTION NO: 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

QUESTION NO: 7

The following SAS program is submitted:

```
data WORK.TOTALSALES(keep=MonthSales{12}):  
  set WORK.MONTHLYSALES(keep=Year Product Sales);  
  array MonthSales{12};  
  do i=1 to 12;  
    MonthSales{i}=Sales;  
  end;  
  drop i;  
run;
```

The program fails execution due to syntax errors. What is the cause of the syntax error?

- A. The variable MONTHSALES does not exist.
- B. An array cannot be referenced on a KEEP data set option.
- C. The KEEP= data set option should be (KEEP = MONTHSALES).
- D. The KEEP= data set option should be the statement KEEP MONTHSALES{12}.

ANSWER: B

QUESTION NO: 8

The following SAS program is submitted:

```
libname temp 'SAS data library'; data work.new; set temp.jobs; format newdate mmddw10.; mdate = month(newdate); ddate = weekday(newdate); run; proc print data = work.new; run;
```

The variable NEWDATE contains the SAS date value for April 15, 2005. What output is produced if April 15, 2005 falls on a Friday?

- A. Obsnewdate mdate ddate 104/15/2005 APR 6
- B. Obs newdate mdate ddate 104/15/2005 4 6
- C. Obs newdate mdate ddate 104/15/2005 APR 7
- D. Obs newdate mdate ddate
104/15/2005 4 7

ANSWER: B

QUESTION NO: 9

The following SAS program is submitted:

```
data work.total;
```

set work.salary(keep = department wagherate); by department; if first.department then payroll = 0; payroll + wagherate; if last.department run;

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

- A. The WORK.TOTAL data set contains 5 observations.
- B. The WORKTDOTAL data set contains 100 observations.
- C. The WORKTOTAL data set contains 500 observations.
- D. The program fails to execute due to errors.

ANSWER: A

QUESTION NO: 10

The following SAS program is submitted, creating the SAS data set ONE:

```
data one;
```

```
infile 'file specification'; input num chars$;
```

```
run;
```

```
ONE
```

```
NUM CHAR
```

```
-----
```

```
1 23
```

```
3 23
```

```
1 77
```

The following SAS program is submitted:

```
proc print data = one; where char = 23; run;
```

What is output?

A. NUM CHAR

```
1 77
```

```
2
```

B. NUM CHAR

```
1 23
```

```
3 23
```

C. NUM CHAR

```
1 23
```

3 23
1 77

D. No output is generated.

ANSWER: D

QUESTION NO: 11

A SAS PRINT procedure output of the WORK.LEVELS data set is listed below:

Obs name level

1 Frank 1

2 Joan 2

3 Sui 2

4 Jose 3 5 Burt 4 6 Kelly .

7 Juan 1

The following SAS program is submitted:

```
data work.expertise; set work.levels; if level = . then expertise = 'Unknown'; else if level = 1 then expertise = 'Low'; else if level = 2 or 3 then expertise = 'Medium'; else expertise = 'High'; run;
```

Which of the following values does the variable EXPERTISE contain?

- A. Low, Medium, and High only
- B. Low, Medium, and Unknown only
- C. Low, Medium, High, and Unknown only
- D. Low, Medium, High, Unknown, and '' (missing character value)

ANSWER: B

QUESTION NO: 12

Given the SAS data set WORKAWARDS:

WORK.AWARDS

FNAME POINTS MONTH

-----Amy 2 4

Amy 1 7

Gerard 3 3 Wang 3 3

Wang 1 12 Wang 1 8

The following SAS program is submitted:

```
proc sort data = work.awards; by descending fname points; run;
```

How are the observations sorted?

A. ENAME POINTS MONTH

Wang 3 3

Wang 1 12 Wang 1 8

Gerard 3 3

Amy 2 4

Amy 1 7

B. ENAME POINTS MONTH

Amy 2 4

Amy 1 7

Gerard 3 3

Wang 3 3

Wang 1 8

Wang 1 12

C. ENAME POINTS MONTH Wang 3 3

Wang 1 8

Wang 1 12 Gerard 3 3

Amy 2 4

Amy 1 7

D. ENAME POINTS MONTH

Wang 1 12

Wang 1 8

Wang 3 3

Gerard 3 3

Amy 1 7

Amy 2 4

ANSWER: A

QUESTION NO: 13

The following SAS program is submitted:

```
data test; set sasuser.employees; if 2 le years_service le 10 then amount = 1000; else amount = 0;
```

```
amount_per_year = years_service / amount run;
```

What is the value of the variable AMOUNT_PER_YEAR if an employee has been with the company for one year?

A. 0

- B. 0.001
- C. 1
- D. . (missing numeric value)

ANSWER: D

QUESTION NO: 14

The SAS data set EMPLOYEE_INFO is listed below:

IDNumber Expenses

2542 100.00

3612 133.15

2198 234.34

2198 111.12

The following SAS program is submitted:

```
proc sort data = employee_info; run;
```

Which one of the following BY statements completes the program and sorts the data sequentially by descending expense values within each descending IDNUMBER value?

- A. by descending IDNumber Expenses;
- B. by (IDNumber Expenses) descending;
- C. by IDNumber descending Expenses descending;
- D. by descending IDNumber descending Expenses;

ANSWER: D

QUESTION NO: 15

The following SAS program is submitted:

```
data combine; prefix='505'; middle='6465'; end='09090'; ; run;
```

Which statement successfully completes the program so that TOTAL has a value of 505-646509090?

- A. total = cat('-', prefix, middle, end);
- B. total = catx('-', prefix, middle, end);

C. total = prefix !!'-!! middle “!!'-!! end;

D. total = prefix!!'-!! left(middle)!!'-!! end;

ANSWER: B