

Exam Name:	SAS Base Programming for SAS (r) 9		
Exam Type:	SAS		
Exam Code:	A00-211	Total Questions:	70

Question: 1

The SAS data set SASUSER.HOUSES contains a variable PRICE which has been assigned a permanent label of "Asking Price". Which SAS program temporarily replaces the label "Asking Price" with the label "Sale Price" in the output?

- A - proc print data = sasuser.houses; label price = "Sale Price"; run;
- B - proc print data = sasuser.houses label; label price "Sale Price"; run;
- C - proc print data = sasuser.houses label; label price = "Sale Price"; run;
- D - proc print data = sasuser.houses; price = "Sale Price"; run;

Answer: C

Question: 2

The following GAS program is submitted:

```
data work.empsalary;
set work.people (in = inemp)
work.money (in = insal);
if insal and inemp;
run;
```

The SAS data set WORKPEOPLE has 5 observations, and the data set WORKMONEY has 7 observations. How many observations will the data set WORK.EMPSALARY contain?

- A - 0
- B - 5
- C - 7
- D - 12

Answer: A

Question: 3

The following SAS program is submitted:

```
data work.accounting;
set work.dept1 work.dept2;
jobcode = 'FA1';
length jobcode $ 8;
run;
```

A character variable named JOBCODE is contained in both the WORK.DEPT1 and WORK.DEPT2 SAS data sets. The variable JOBCODE has a length of 5 in the WORK.DEPT1 data set and a length of 7 in the WORK.DEPT2 data set. What is the length of the variable JOBCODE in the output data set?

- A - 3
- B - 5
- C - 7
- D - 8

Answer: B

Question: 4

Given the SAS data set SASDATA.TWO:

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SASDATA.TWO

X	Y
--	---
5	2
5	4
3	6

The following SAS program is submitted:

```
data sasuser.one one sasdata.three;
set sasdata two;
if x = 5 then output sasuser.one;
else output sasdata three;
run;
```

What is the result?

- A - The data set SASUSER.ONE has 0 observations, the data set ONE has 0 observations, and the data set SASDATA.THREE has 0 observations.
- B - The data set SASUSER.ONE has 2 observations, the data set ONE has 0 observations, and the data set SASDATA.THREE has 1 observation.
- C - The data set SASUSER.ONE has 2 observations, the data set ONE has 3 observations, and the data set SASDATA.THREE has 1 observation.
- D - No data sets are output. The DATA step fails execution due to errors.

Answer: B

Question: 5

The following SAS program is submitted:

```
footnote 1 'Sales Report for Last Month';
footnote2 'Selected Products Only';
footnote3 'All Regions';
footnote4 'All Figures in Thousands of Dollars';
proc print data = sasuser.shoes;
footnote2 'All Products';
run;
```

Which footnote(s) is/are displayed in the report?

- A - All Products
- B - Sales Report for Last Month All Products
- C - All Products All Regions All Figures in Thousands of Dollars
- D - Sales Report for Last Month All Products All Regions All Figures in Thousands of Dollars

Answer: B

Question: 6

Given the raw data record DEPT:

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

Printing 750

The following SAS program is submitted:

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```
data bonus;
infile 'dept';
inputdept$ 1-11 number 13- 15;
<insert statement here>
run;
```

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

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

Answer: D

Question: 7

The following SAS program is submitted:

```
data one;
address1 = '214 London Way';
run;
data one;
set one;
address = tranwrd(address1, 'Way', 'Drive'); run;
What are the length and value of the variable ADDRESS?
```

- A - Length is 14; value is '214 London Dri'.
- B - Length is 14; value is '214 London Way'.
- C - Length is 16; value is '214 London Drive'.
- D - Length is 200; value is '214 London Drive'.

Answer: D

Question: 8

The following SAS program is submitted:

```
data work.sets;
do until (prod gt 6);
prod + 1;
end;
run;
```

What is the value of the variable PROD in the output data set?

- A - 6
- B - 7
- C - 8
- D - (missing numeric)

Answer: B

Question: 9

Given the SAS data sets EMPLOYEE and SALARY:

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EMPLOYEE		SALARY
Fname age		name salary
Bruce 30		Bruce 25000
Dan 40		Bruce 35000
		Dan 25000

The following SAS program is submitted:

```
data work.empdata;
<insert MERGE statement here>
by fname;
totsal + salary;
run;
```

Which MERGE statement correctly completes the program?

- A - merge employee
salary rename = fname = name;
- B - merge employee
salary rename(name = fname);
- C - merge employee
salary (rename = (fname = name));
- D - merge employee
salary (rename = (name = fname));

Answer: D

Question: 10

Which program displays a listing of all data sets in the SASUSER library?

- A - proc contents lib = sasuser.all; run;
- B - proc contents data = sasuser.all; run;
- C - proc contents lib = sasuser._all_; run;
- D - proc contents data = sasuser._all_; run;

Answer: D

Question: 11

The following SAS program is submitted:

```
proc sort data = work.employee;
by descending fname;
proc sort data = work.salary;
by descending fname;
data work.empdata;
merge work.employee
work.salary;
by fname;
run;
```

Why does the program fail to execute?

- A - The SORT procedures contain invalid syntax.
- B - The merged data sets are not permanent SAS data sets.
- C - The RUN statement was omitted after each of the SORT procedures.

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D - The data sets were not merged in the order by which they were sorted.

Answer: D

Question: 12

The following SAS program is submitted:

```
data work.sales;
do year = 1 to 5;
do month=1 to 12;
x+1;
output
end;
end;
run;
```

How many observations are written to the WORK SALES data set?

- A - 0
- B - 1
- C - 5
- D - 60

Answer: D

Question: 13

Given the following raw data record:

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

son Travis,

The following output is desired:

```
Obs    relation  firstame
1      son      Travis
```

Which SAS program correctly reads in the raw data?

- A - data family (dlm = ','; infile 'file specification'; input relation \$ firstame \$; run;
- B - options dlm = ','; data family; infile 'file specification'; input relation \$ firstame \$; run;
- C - data family; infile 'file specification' dlm = ','; input relation \$ firstame \$; run;
- D - data family; infile 'file specification'; input relation \$ firstame \$ / dim = ','; run;

Answer: C

Question: 14

Given the SAS data set AGES:

```
AGES
AGE
-----
```

The variable AGE contains character values. The following SAS program is submitted:

```
data subset;
set ages;
where age > 12;
```

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run;

How many observations are written out to the data set SUBSET?

- A - 0
- B - 1
- C - 2
- D - 3

Answer: A

Question: 15

Given the SAS data set PRICES:

```
PRICES
prodid price producttype sales returns
K12S 5.10 NETWORK 15 2
B132S 2.34 HARDWARE 300 10
R18KY21.29 SOFTWARE 25 5
3KL8BY 6.37 HARDWARE 125 15
DY65DW 5.60 HARDWARE 45 5
DGT23 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: 16

The following SAS program is submitted:

```
data work.accounting;
set work.department;
length jobcode $ 12;
jobcode='FAI';
run;
```

The WORK.DEPARTMENT data set contains a character variable named JOBCODE with a length of 5.

What is the result?

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- A - The length of the variable JOBCODE is 3.
- B - The length of the variable JOBCODE is 5.
- C - The length of the variable JOSBODE is 12.
- D - The program fails to execute due to errors.

Answer: B

Question: 17

Which ODS statement option terminates output being written to an HTML file?

- A - END
- B - QUIT
- C - STOP
- D - CLOSE

Answer: D

Question: 18

The SAS data set PETS is sorted by the variables TYPE and BREED.

The following SAS program is submitted:

```
proc print data = pets;
var type breed;
sum number;
run;
```

What is the result?

- A - The SUM statement produces only a grand total of NUMBER.
- B - The SUM statement produces only subtotals of NUMBER for each value of TYPE.
- C - The SUM statement produces both a grand total of NUMBER and subtotals of NUMBER for each value of TYPE.
- D - Nothing is produced by the SUM statement; the program fails to execute.

Answer: A

Question: 19

The following SAS program is submitted:

```
data work.passengers;
if OrigPassengers = then
OrigPassengers = 100;
TransPassengers = 100;
OrigPassengers =
TotalPassengers = sum (OrigPassengers, TransPassengers) +0;
run;
```

What is the value of the TOTALPASSENGERS variable in the output data set?

- A - 0
- B - 100
- C - 200
- D - (missing numeric value)

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Answer: B

Question: 20

Given the SAS data set PRICES:

PRICES

ProdId	price	producttype	sales	returns
K125	5.10	NETWORK	15	2
B132S	2.34	HARDWARE	300	10
R18KY2	1.29	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 cheap;
set prices(keep = producttype price);
if producttype = 'HARDWARE' then output hware; else if producttype = 'NETWORK' then output
inter; if price le 5.00;
run;
```

How many observations does the HWARE data set contain?

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

Answer: D

Question: 21

The following SAS program is submitted:

```
data work.sales;
do year = 1 to 5;
do month = 1 to 12;
x+ 1;
end;
end;
run;
```

How many observations are written to the WORK.SALES data set?

- A - 0
- B - 1
- C - 5
- D - 60

Answer: B

Question: 22

The following SAS program is submitted:

```
data work.totalsales (keep = monthsales{12});
set work.monthlysales (keep = year product sales);
array monthsales{12};
```


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```
do i = 1 to 12; monthsales{i} = sales;
end;
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: 23

Given the SAS data set EMPLOYEES:

```
EMPLOYEES
NAME  SALARY
-----
Innis  60000
Jolli  50000
Ellis  55000
Liu    45000
```

The following SAS program is submitted:
proc print data = employees; where name like ' _i%';
run;

What is contained in the output?

- A - Liu only
- B - Innis and Ellis only
- C - Innis, Ellis, and Liu only
- D - Innis, Jolli, Ellis, and Liu

Answer: A

Question: 24

Given the SAS data set ONE:

```
ONE
Obs  Dte
-----
1    09JAN2005
2    12JAN2005
```

The following SAS program is submitted:

```
data two;
set one;
day = <insert expression here>;
format dte date9.;
run;
```

The data set TWO is created:

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TWO

Obs	Dte	Day
1	09JAN2005	1
12	JAN2005	4

Which expression successfully completed the program and created the variable DAY?

- A - day(dte)
- B - weekday(dte)
- C - dayofweek(dte)
- D - datdif(dte,'01jan2005'd,'act/act')

Answer: B

Question: 25

Read the table:

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

Given the SAS data set SASUSER.HOUSES:

Obs	style	bedrooms	baths	price	sqteet	street
1	CONDO	2	1.5	80050	1200	MAIN
2	CONDO	3	2.5	79350	1300	ELM
3	CONDO	4	2.5	127150	1400	OAK
4	CONDO	2	2.0	110700	1100	FIFTH
5	TWOSTORY	4	3.0	107250	2100	SECOND
6	TWOSTORY	2	1.0	55650	1600	WEST
7	TWOSTORY	2	1.0	69250	1450	NORTH
6	TWOSTORY	4	2.5	102950	2000	SOUTH

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 format = dollar12.;
title;
run;

```

The following output is desired:

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style	price
-----	-----
CONDO	\$79,700
TWOSTORY	\$62550

Which DEFINE statement completes the program and produces the desired output?

- A - define style / width = 9;
- B - define style / orderwidth = 9;
- C - define style / group width = 9;
- D - define style / display width = 9;

Answer: C

Question: 26

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

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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: D

Question: 27

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: 28

Given the contents of the raw data file PRODUCT:

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

```
24613 $25.31
```

The following SAS program is submitted:

```
data inventory;
infile 'product';
input idnum 5. @10 price;
run;
```

What is the value of the PRICE variable?

- A - 25.31
- B - \$25.31
- C - . (missing numeric value)
- D - No value is stored.

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Answer: C

Question: 29

The following SAS program is submitted:

```
proc contents data = sashelp.class varnum; quit;
```

What does the VARNUM option print?

- A - a list of variable names
- B - the total number of variables
- C - a list of the variables in alphabetic order
- D - a list of the variables in the order they were created

Answer: D

Question: 30

The following SAS program is submitted:

```
data test;
set chemists;
itjobcode = 'Chem2'
then description = 'Senior Chemist';
else description = 'Unknown';
run;
```

The value for the variable JOBCODE is:

JOBCODE

chem2

What is the value of the variable DESCRIPTION?

- A - chem2
- B - Unknown
- C - Senior Chemist
- D - '' (missing character value)

Answer: B

Question: 31

Given the AIRPLANES data set

```
AIRPLANES
TYPE  MPG
-----
F-18   105
C-130   25
Harrier 75
A-6    110
```

The following SAS program is submitted:

```
data gt100;
set airplanes(keep = type mpg load);
```

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```
load = mpg * 150;
run;
```

The program fails to execute due to syntax errors.

What is the cause of the syntax error?

- A - MPG is not a numeric variable.
- B - LOAD is not a variable in the data set GT100.
- C - LOAD is not variable in the data set AIRPLANES.
- D - LOAD must be defined prior to the SET statement.

Answer: C

Question: 32

Given the raw data file EMPLOYEE:

```
----|----1 0---|----20---|----30
```

```
Ruth 39 11
Jose 32 22
Sue 30 33
John 40 44
```

The following SAS program is submitted:

```
data test;
infile 'employee';
input employee_name $ 1-4;
if employee_name = 'Ruth' then input idnum 10-11;
else input age 7-8;
run;
```

What value does the variable IDNUM contain when the name of the employee is "Ruth"?

- A - 11
- B - 22
- C - 33
- D - (missing numeric value)

Answer: B

Question: 33

The following SAS program is submitted:

```
data temp.x;
set sasuser.y;
run;
```

What must be submitted prior to this SAS program for the program to execute successfully?

- A - A LIBNAME statement for the libref TEMP only must be submitted.
- B - A LIBNAME statement for the libref SASUSER only must be submitted.
- C - LIBNAME statements for the librefs TEMP and SASUSER must be submitted.
- D - No LIBNAME statement needs to be submitted.

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Answer: A

Question: 34

The data set RALESTATE has the variable LOCALFEE with a format of 9. and a variable COUNTRYFEE with a format of 7.;

The following SAS program is submitted:

```
data history;
format local fee country fee percent6.;
set realestate;
local fee = local fee / 100;
country fee = country fee / 100;
run;
```

What are the formats of the variables LOCALFEE and COUNTRYFEE in the output dataset?

- A - LOCALFEE has format of 9. and COUNTRYFEE has a format of 7.
- B - LOCALFEE has format of 9. and COUNTRYFEE has a format of percent6.
- C - LOCALFEE has format of percent6. and COUNTRYFEE has a format of percent6.
- D - The data step fails execution; there is no format for LOCALFEE

Answer: C

Question: 35

The following SAS program is submitted:

```
proc freq data = class;
tables gender * age / <insert option here>;
run;
```

The following report is created:

The FREQ Procedure

Table of gender by age				Row Column		
Gender	age	Frequency	Percent	Percent	Percent	
F	11	1	10.00	20.00	50.00	
	12	2	20.00	40.00	40.00	
	13	2	20.00	40.00	66.67	
Total		5	50.00	100.00		
M	11	1	10.00	20.00	50.00	
	12	3	30.00	60.00	60.00	
	13	1	10.00	20.00	33.33	
Total		5	50.00	100.00		

Total	11	2	20.00	100.00		
	12	5	50.00	100.00		
	13	3	30.00	100.00		
	Total	10	100.00			

Which option correctly completes the program and creates the report?

- A - LIST

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B - NOCOLS
C - CROSSLIST
D - NOCROSSTAB

Answer: C

Question: 36

The value 110700 is stored in a numeric variable named SALARY.
Which FORMAT statement displays the value as \$110,700.00 in a report?

A - format salary comma11.2;
B - format salary dollar8.2;
C - format salary dollar11.2;
D - format salary comma8.2 dollar8.2;

Answer: C

Question: 37

Given the raw data file YEARAMT:

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

1901 2
1905 1
1910 6
1925 .
1941 1

The following SAS program is submitted:

```
data coins;
infile 'yearamt';
input year quantity;
<insert statement(s) here>
run;
```

Which statement(s) completed the program and produced a non-missing value for the variable TOTQUANTITY in the final observation of the output data set?

A - totquantity + quantity;
B - totquantity = sum(totquantity + quantity);
C - retain totquantity; totquantity = totquantity + quantity;
D - retain totquantity0; totquantity = totquantity + quantity;

Answer: A

Question: 38

Given the SAS data set EMPLOYEE INFO:

```
EMPLOYEE_INFO
IDNumber    Expenses
2542        100.00
3612        133.15
2198        234.34
2198        111.12
```


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The following SAS program is submitted:

```
proc sort data = employee_info;
<insert BY statement here>
```

```
run;
```

Which BY statement completes the program and sorts the data sequentially by ascending expense values within each ascending IDNUMBER value?

- A - by Expenses IDNumber;
- B - by IDNumber Expenses;
- C - by ascending Expenses IDNumber;
- D - by ascending IDNumber ascending Expenses;

Answer: B

Question: 39

The following SAS program is submitted:

```
proc format
value score 1 - 50 = 'Fail'
51 - 100 = 'Pass';
run;
proc report data = work.courses nowd;
column exam;
define exam / display format = score.;
run;
```

The variable EXAM has a value of 50.5.

How will the EXAM variable value be displayed in the REPORT procedure output?

- A - Fail
- B - Pass
- C - 50.5
- D - . (missing numeric value)

Answer: C

Question: 40

What is the purpose of the MISSEVER option on the INFILE statement?

- A - It prevents SAS from loading a new record when the end of the current record is reached.
- B - It enables SAS to scan the input data records until the character string that is specified in the '@character-string' expression is found.
- C - It enables SAS to continue to read the next input data record if it does not find values in the current input line for all the variables in the statement.
- D - It causes the DATA step to stop processing if an INPUT statement reaches the end of the current record without finding values for all variables in the statement.

Answer: A

Question: 41

The following SAS program is submitted:

```
data work.test;
set work.staff (keep = jansales febsales marsales);
array diff_sales{3} difsales1 - difsales3;
array monthly{3} jansales febsales marsales;
run;
```

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What new variables are created?

- A - JANSales, FEBSales and MARSales
- B - MONTHLY1, MONTHLY2 and MONTHLY3
- C - DIFSales1, DIFSales2 and DIFSales3
- D - DIFF_Sales1, DIFF_Sales2 and DIFF_Sales3

Answer: C

Question: 42

What describes the SAS automatic _ERRDR_ variable?

- A - The _ERROR_ variable contains the values 'TRUE' or 'FALSE.'
- B - The _ERROR_ variable maintains a count of the number of data errors.
- C - The _ERROR_ variable can be used in expressions or calculations in the DATA step.
- D - The _ERROR_ variable contains the number or the observation that caused the error.

Answer: C

Question: 43

Given the following raw data record:

07Jan20 05

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

- A - dmy9.
- B - date9.
- C - ddMMMy9.
- D - ddmmyyyy9.

Answer: B

Question: 44

Which statement correctly computes the average of four numerical values?

- A - average = mean(num1, num4);
- B - average = mean(num1 - num4);
- C - average = mean(of num1 - num4)
- D - average = mean(num1 num2 num3 num4);

Answer: C

Question: 45

The following SAS program is submitted:

```
libname temp 'SAS data library';
data temp.sales;
merge temp sales
work.receipt;
by names;
run;
```

The input data files are sorted by the NAMES variable:

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What is the result?

- A - The program executes successfully and a temporary SAS data set is created.
- B - The program executes successfully and a permanent SAS data set is created.
- C - The program fails execution because the same SAS data set is referenced for both read and write operations.
- D - The program fails execution because the SAS data sets on the MERGE statement are in two different libraries.

Answer: B

Question: 46

Given the contents of the raw data file TYPECOLOR:

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

```
Daisyyellow
```

The following SAS program is submitted:

```
data flowers;
infile 'typecolor';
input type$ 1-5+1 color$;
run;
```

What are the values of the variables TYPE and COLOR?

- A - type color
 daisyyellow
- B - type color
 daisyyellow
- C - type color
 daisyyellow" "(missing character value)
- D - No values are stored for the TYPE and COLOR variables.

Answer: B

Question: 47

A user-defined format has been created using the FORMAT procedure. Where is it stored?

- A - in a SAS catalog
- B - in an external binary file
- C - in a SAS dataset in the WORK library
- D - in a SAS dataset in a permanent SAS data library

Answer: A

Question: 48

The following SAS program is submitted:

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

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end;
run;

What is the value of the CITY variable?

- A - Other
- B - Copenh
- C - Copenhagen
- D - "(missing character value)

Answer: A

Question: 49

The following SAS program is submitted:

```
data work.new;
length word $7;
amount = 4;
if amount = 4 then word = 'FOUR';
else if amount = 7
then word = 'SEVEN';
else word = 'NONE!!!';
amount = 7;
run;
```

What are the values of the AMOUNT and WORD variables in SAS dataset work.new?

- A - amount word
4 FOUR
- B - amount word
4 NONE!!!
- C - amount word
7 FOUR
- D - amount word
7 SEVEN

Answer: C

Question: 50

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:

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```
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: 51

The following SAS program is submitted:

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

What is the result?

- A - The value of the variable TOTAL in the output data set is 2000. No messages are written to the SAS log.
- B - The value of the variable TOTAL in the output data set is 2000. A note that conversion has taken place is written to the SAS log.
- C - The value of the variable TOTAL in the output data set is missing. An error message is written to the SAS log.
- D - The variable TOTAL in the output data set has no value. The program fails to execute due to a syntax error.

Answer: B

Question: 52

The following SAS program is submitted:

```
Data _null_;
set old;
put sales 1 sales2;
run;
```

Where is the output written?

- A - to the SAS log
- B - to the SAS data set _NULL_
- C - to the SAS output window or to an output file
- D - to the raw data file that was most recently opened

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Answer: A

Question: 53

The following SAS program is submitted:

```
data work.test;
array items{3} _temporary_;
run;
```

What are the names of the variable(s) in the WORKTEST data set?

- A - ITEMS
- B - ITEMS1, ITEMS2, ITEMS3
- C - No variables are created because it is a temporary array.
- D - The program fails to execute because there are no variables listed on the ARRAY statement.

Answer: C

Question: 54

Read the table

The FREQ Procedure				
Table of Region by Product				
Region	Product			
Frequency Percent Row Pct Col Pct	Boot	Sandal	Slipper	Total
Africa	8 12.70 33.33 38.10	8 12.70 33.33 38.10	8 12.70 33.33 38.10	24 38.10
Asia	2 3.17 33.33 9.52	2 3.17 33.33 9.52	2 3.17 33.33 9.52	6 9.52
Canada	5 7.94 33.33 23.81	5 7.94 33.33 23.81	5 7.94 33.33 23.81	15 23.81
Pacific	6 9.52 33.33 28.57	6 9.52 33.33 28.57	6 9.52 33.33 28.57	18 28.57
Total	21 33.33	21 33.33	21 33.33	63 100.00

The following SAS program is submitted:

```
proc freq data = sales;
<insert TABLES statement here>
run;
```

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The following output is created by the FREQUENCY procedure:

The FREQ Procedure

Table of region by product

```

region  product
Frequency
Percent
Row Pct
Col Pct corn cotton oranges Total
EAST   2      1      1      4
      22.22  11.11  11.11  44.44
      50.00  25.00  25.00
      50.00  33.33  50.00
SOUTH  2      2      1      5
      22.22  22.22  11.11  55.56
      40.00  40.00  20.00
      50.00  66.67  50.00
Total   4      3      2      9
      44.44  33.33  22.22 100.00

```

Which TABLES statement(s) completed the program and produced the output?

- A - tables region product;
- B - tables region * product;
- C - tables product * region;
- D - tables product; tables region;

Answer: B

Question: 55

The following SAS program is submitted:

```

data one;
date = '04jul2005'd;
format date weekdate.; run;
proc print data = one; run;

```

What output is generated?

- A - Obs date
1 Monday, July 4, 2005
- B - Obs date
1 July4, 2005
- C - Obs date
1 04Jul2005
- D - Obs date
1 Monday, 07/04/2005

Answer: A

Question: 56

The following SAS program is submitted:

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```
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: 57

Given the SAS data set PERM.STUDENTS:

```
PERM.STUDENTS
NAME          AGE
-----
Alfred        14
Alice         13
Barbara       13
Carol         14
```

The following SAS program is submitted:

```
libname perm 'SAS data library';
data students;
set perm.students;
file 'file specification';
put name $ age;
<insert statement here>
run;
```

The following double-spaced file is desired as output

```
Alfred 14
Alice 13
Barbara 13
Carol 14
```

Which statement completes the program and creates the desired file?

- A - put
- B - put/;
- C - double;
- D - put _null_;

Answer: A

Question: 58

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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 named WORKSALARY contains 10 observations for each department, and is currently ordered by DEPARTMENT.
Which statement is true?

- A - The BY statement in the DATA step causes a syntax error.
- B - The statement payroll + wagerate; in the DATA step causes a syntax error.
- C - The values of the variable PAYROLL represent the total for each department in the WORK.SALARY data set.
- D - The values of the variable PAYROLL represent a total for all values of WAGERATE in the WORKSALARY data set.

Answer: C

Question: 59

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 <insert INFORMAT here>
@25 department$;
run;
```

Which INFORMAT correctly completes the program?

- A - date9.
- B - ddmmyyyy9.
- C - ddmmyy10.
- D - ddmmyyyy10.

Answer: C

Question: 60

The following SAS program is submitted:

```
data test;
```

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```
infile 'file specification';
input name $ amount@@;
run;
```

Which of the following is true?

- A - Two @@ together are the same as one c.
- B - Two @@ hold the data records until the bottom of the DATA step.
- C - Two @@ hold the raw data record across iterations of the DATA step.
- D - Two @@ are invalid syntax and will cause the program to fail to execute.

Answer: C

Question: 61

Given the SAS data set QTR1_REVENUE:

```
destination    revenue
YYZ            53634
FRA            62129
FRA            75962
RDU            76254
YYZ            82174
```

The following SAS program is submitted:

```
proc sort data = qtr1_revenue;

by destination descending revenue; run;
```

What is the first observation in the output data set?

- A - destination revenue
FRA 62129
- B - destination revenue
FRA 75962
- C - destination revenue
YYZ 53634
- D - destination revenue
YYZ 82174

Answer: B

Question: 62

The following SAS program is submitted:

```
data numrecords;
infile 'file specification';
input@1 patient $15.
relative$ 16-26@;
if relative = 'children' then
input @54 diagnosis $15. @;
else if relative = 'parents' then
input @28 doctor $15.
clinic $ 44-53
@54 diagnosis $15. @;
```

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```
input age;
run;
```

How many raw data records are read during each iteration of the DATA step execution?

- A - 1
- B - 2
- C - 3
- D - 4

Answer: A

Question: 63

Given the SAS data set ONE:

ONE

X	Y	Z
1	A	27
1	A	33
1	B	45
2	A	52
2	B	69
3	B	70
4	A	62
4	C	91

The following SAS program is submitted:

```
data two;
set one;
by x y;
if first.y;
run;
proc print data = two noobs;
run;
```

4Which report is produced?

A - X	Y	Z
1	A	27
1	B	45
2	A	52
2	B	69
3	B	70
4	A	82
4	C	91
B - X	Y	Z
1	A	33
1	B	45
2	A	52
2	B	69
3	B	70
4	A	82

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4 C 91
 C - X Y Z
 1 B 45
 2 A 52
 2 B 69
 3 B 70
 4 A 82
 4 C 91

D - The PRINT procedure tails because the data set TWO is not created in the DATA step.

Answer: A

Question: 64

After a SAS program is submitted, the following is written to the SAS log:

```

105 data january;
106 set allmonths(keep = product month num_sold cost);
107 if month = 'Jan' then output january;
108 sales = cost * num_sold;
109 keep = product sales;

```

```

-----
      22

```

ERROR 22-322: Syntax error, expecting one of the following:!,

```

    !, &, *, **, +, -, /, <, <=, <>, =, >, >=,
    AND, EQ, GE, GT, IN, LE, LT, MAX, MIN, NE, NG, NL,
    NOTIN, OR, ^=, |, ||,

```

110 run;

What changes should be made to the KEEP statement to correct the errors in the LOG?

- A - keep product sales;
- B - keep product, sales;
- C - keep = product, sales;
- D - keep = (product sales);

Answer: A

Question: 65

The following SAS program is submitted:

```

data combine;
prefix='505';
middle='6465';
end='09090';
<insert statement here>;
run;

```

Which statement successfully completes the program so that TOTAL has a value of 505-6465-09090?

- A - total = cat('-', prefix, middle, end);
- B - total = catx('-', prefix, middle, end);
- C - total = prefix || '-' || middle || '-' || end;
- D - total = prefix || '-' || left(middle) || '-' || end;

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Answer: B

Question: 66

The following SAS program is submitted:

```
<insert ODS statement here>
proc means data = sasuser.shoes;
where product in ('Sandal' , 'Slipper' , 'Boot');
run;
```

```
<insert ODS statement here>
```

Which ODS statements complete the program and send the report to an HTML file?

- A - ods html = 'sales.html'; ods html close;
- B - ods file = 'sales.html'; ods file close;
- C - ods file html = 'sales.html'; ods file close;
- D - ods html file = 'sales.html'; ods html close;

Answer: D

Question: 67

Given the raw data file AMOUNT:

```
----|---- 10---|----20---|----30
$1,234
```

The following SAS program is submitted:

```
data test;
infile 'amount';
input@1 salary 6.;
if_error_then description = 'Problems';
else description = 'No Problems';
run;
```

What is the result?

- A - The value of the DESCRIPTION variable is No Probl.
- B - The value of the DESCRIPTION variable is Problems.
- C - The value of the DESCRIPTION variable is No Problems.
- D - The value of the DESCRIPTION variable can not be determined.

Answer: B

Question: 68

Given the SAS data set PEPM.STUDENTS:

```
PERM.STUDENTS
NAME AGE
-----
Alfred 14
Alice 13
Barbara13
Carol 14
```

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The following SAS program is submitted:

```
libname perm 'SAS data library';
data students;
set perm.students;
file 'file specification';
put name $15. @5 age 2.;
run;
```

What is written to the output raw data file?

- A - ----|----10---|----20---|----30
 Alfred 14
 Alice 13
 Barbara 13
 Carol 14
- B - ----|----10---|----20---|----30
 Alfr14
 Alic13
 Barb13a
 Carol 4
- C - ----|----10---|----20---|----30
 Alfr14ed
 Alic130
 Barb13ara
 Caro141
- D - ----|----10---|----20---|----30
 Alfred14
 Alice13
 Barbara13
 Carol14

Answer: B

Question: 69

The following SAS program is submitted:

```
data work.total;
set work.salary(keep = department wage*);
by department;
if first.department
then payroll = 0;
payroll + wage* ;
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 WORK.TOTAL data set contains 100 observations.
- C - The WORK.TOTAL data set contains 500 observations.
- D - The program fails to execute due to errors.

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Answer: A

Question: 70

The following SAS program is submitted;

```
data combine;
country = 'Italy, Russia, ireland';
found = find(country, 'i');
run;
```

What is the value of the variable FOUND in the output data set?

- A - 1
- B - 12
- C - Italy
- D - Russia

Answer: B

End of Document

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