Item 1 of 63 Mark item for review

When attempting to minimize memory usage, the most efficient way to do group processing when using the MEANS procedure is to use:

A.

the BY statement.

В.

GROUPBY with the NOTSORTED specification.

C.

the CLASS statement.

D.

multiple WHERE statements.

C?

Item 2 of 63 Mark item for review

The SAS data set WORK.CHECK has a variable named Id_Code in it. Which SQL statement would create an index on this variable?

A.

create index Id Code on WORK. CHECK;

В.

create index(Id_Code) on WORK.CHECK;

C.

make index=Id_Code from WORK.CHECK;

D.

define index(Id_Code) in WORK.CHECK;

Δ

Item 3 of 63 Mark item for review

Given the SAS data sets:

WORK. EMPLO	YEE	WORK. NEWEN	MPLOYEE
Name	Dept	Names	Salary
Alan Michelle		Michelle Paresh	
the following the following the following selection of the following selection in the following selection is a selection of the following selection of the f	eql; ect dept, nam WORK.EMPLOY re name=(sele from wher	en to the SAS ne YEE	0000)
	allow the pr y execute wi	rogram to thout errors?	?
A. Replace the	where clause	e with:	
where EMPLOYE	from	ect Names del: WORK.NEWEMPLO Salary > 400	
B. Replace line	104 with:		
where EMPLOYE	EE. Name =ANY	(select Names from WORK.NEW where Salary	
C. Replace the	equal sign w	vith the IN op	perator.

Qualify the column names with the table names. $\boldsymbol{\mathsf{C}}$

Item 4 of 63 Mark item for review

Given the SAS data set SASUSER. HIGHWAY:

Steering	Seatbelt	Speed	Status	Count
absent	No	0 - 29	serious	31
absent	No	0 - 29	not	1419
absent	No	30 - 49	serious	191
absent	no	30 - 49	not	2004
absent	no	50+	serious	216

The following SAS program is submitted:

```
proc sql noprint;
    select distinct
        Speed [_insert_SQL_clause_]
    from SASUSER.HIGHWAY
    ;
quit;

title1 "Speed values represented are: &GROUPS";
proc print data=SASUSER.HIGHWAY;
run;

Which SQL clause stores the text 0-29, 30-49, 50+ in
the macro variable GROUPS?
```

A. into &GROUPS

B.
into :GROUPS

 $\mathsf{C}.$ into :GROUPS separated by ','

D.

Item 5 of 63 Mark item for review

The SAS data set WORK. CHECK has an index on the variable Code and the following SAS program is submitted.

proc sort data=WORK.CHECK;
 by Code;
run;

Which describes the result of submitting the SAS program?

A.

The index on Code is deleted.

В.

The index on Code is updated.

C.

The index on Code is uneffected.

D.

The sort does not execute.

Indexed data cannot be sorted, unless FORCE option is used.

Item 6 of 63 Mark item for review

The table WORK.PILOTS contains the following data:

WORK. PILOTS

Ιd	Name	Jobcode	Salary
001	Albert	PT1	50000
002	Brenda	PT1	70000

003	Car1	PT1	60000
004	Donna	PT2	80000
005	Edward	PT2	90000
006	Flora	PT3	100000

The data set was summarized to include average salary based on jobcode:

Jobcode	Salary	Avg
PT1	50000	60000
PT1	70000	60000
PT1	60000	60000
PT2	80000	85000
PT2	90000	85000
PT3	100000	100000

Which SQL statement could NOT generate this result?

```
A.
select
  Jobcode,
  Salary,
  avg(Salary) label='Avg'
from WORK. PILOTS
group by Jobcode
order by Id
     В.
 select
   Jobcode,
   Salary,
   (select avg(Salary)
   from WORK. PILOTS as P1
   where P1. Jobcode=P2. Jobcode) as Avg
from WORK.PILOTS as P2
order by Id
```

C. select

```
Salary,
   (select avg(Salary)
   from WORK. PILOTS
   group by Jobcode) as Avg
from WORK.PILOTS
order by Id
     D.
 select
   Jobcode,
  Salary,
  Avg
from
   WORK. PILOTS,
  (select
      Jobcode as Jc,
      avg(Salary) as Avg
   from WORK. PILOTS
   group by 1)
where Jobcode=Jc
order by Id
C
Item 7 of 63 Mark item for review
 A quick rule of thumb for the space
 required to run PROC SORT is:
        A.
 two times the size of the SAS data set being sorted.
     В.
 three times the size of the SAS data set being sorted.
```

four times the size of the SAS data set being sorted.

Jobcode,

C.

D.

five times the size of the SAS data set being sorted.

A or C?

Two to four times

Item 8 of 63 Mark item for review

Multi-threaded processing for PROC SORT will effect which of these system resources?

A.

CPU time will decrease, wall clock time will decrease

В.

CPU time will increase, wall clock time will decrease

C.

CPU time will decrease, wall clock time will increase

D.

CPU time will increase, wall clock time will increase

В

Item 9 of 63 Mark item for review

Given the SAS data set WORK. TRANSACT:

Rep	Cost	Ship
SMITH	200	50
SMITH	400	20
JONES	100	10
SMITH	600	100
JONES	100	5

```
The following output is desired:
```

```
Rep
      JONES
               105
      SMITH
               250
 Which SQL statement was used?
        Α.
select
  rep,
  min(Cost+Ship)
from WORK. TRANSACT
order by Rep
     В.
 select
  Rep,
  min(Cost, Ship) as Min
from WORK. TRANSACT
summary by Rep
order by Rep
     C.
select
  Rep,
  min(Cost, Ship)
from WORK. TRANSACT
group by Rep
order by Rep
     D.
select
  Rep,
  min(Cost+Ship)
from WORK. TRANSACT
group by Rep
```

order by Rep

%let Value=9;

Item 10 of 63 Mark item for review

The following SAS program is submitted:

```
%1et Add=5;
 %let Newval=%eval(&Value/&Add);
 %put &Newval;
     What is the value of the macro variable
     Newval when the %PUT statement executes?
        A.
0.555
     В.
2
    C.
 1.8
     D.
1
D
    Item 11 of 63 Mark item for review
 The following SAS code is submitted:
  data WORK.TEMP WORK.ERRORS / view=WORK.TEMP;
     infile RAWDATA;
     input Xa Xb Xc;
     if Xa=. then output WORK. ERRORS;
     else output WORK.TEMP;
 run;
 Which of the following is true of
  the WORK. ERRORS data set?
```

A.

The data set is created when the DATA step is submitted.

В.

The data set is created when the view TEMP is used in another SAS step.

C.

The data set is not created because the DATA statement contains a syntax error.

D.

The descriptor portion of WORK. ERRORS is created when the DATA step is submitted.

C

Item 12 of 63 Mark item for review

Which title statement would always display the current date?

```
A.

title "Today is: &sysdate.";

B.

title "Today is: &sysdate9.";

C.

title "Today is: &today.";

D.

title "Today is: %sysfunc(today(), worddate.)";
```

Item 13 of 63 Mark item for review

Given the SAS data sets:

Watch out those periods!!

```
WORK. ONE
                       WORK. TWO
  Ιd
        Name
                       Ιd
                               Salary
  112
        Smith
                       243
                               150000
  243
        Wei
                                45000
                       355
  457
                       523
                                 75000
        Jones
 The following SAS program is submitted:
  data WORK.COMBINE;
     merge WORK. ONE WORK. TWO;
     by Id;
 run;
 Which SQL procedure statement produces
  the same results?
        A.
create table WORK.COMBINE as
select
   Ιd,
   Name,
  Salary
from
   WORK. ONE
  full join
   WORK. TWO
on ONE. Id=TWO. Id
     В.
create table WORK.COMBINE as
   coalesce (ONE. Id, TWO. Id) as Id,
   Name,
  Salary
from
   WORK. ONE,
   WORK. TWO
where ONE. Id=TWO. Id
```

;

```
C.
 create table WORK.COMBINE as
select
   coalesce (ONE. Id, TWO. Id) as Id,
   Name,
   Salary
f\,rom
   WORK. ONE
  full join
  WORK. TWO
on ONE. Id=TWO. Id
order by Id
     D.
create table WORK.COMBINE as
select
   coalesce (ONE. Id, TWO. Id) as Id,
   Name,
   Salary
from
   WORK. ONE,
   WORK. TWO
where ONE. Id=TWO. Id
order by ONE. Id
C
  Item 14 of 63 Mark item for review
 The following SAS program is submitted:
  proc contents data=TESTDATA.ONE;
 run;
 Which SQL procedure step produces
```

similar information about the column

attributes of TESTDATA. ONE?

```
A.
 proc sq1;
   contents from TESTDATA.ONE;
quit;
    В.
 proc sq1;
   describe from TESTDATA.ONE;
quit;
    C.
 proc sq1;
  contents table TESTDATA.ONE;
quit;
    D.
 proc sql;
  describe table TESTDATA. ONE;
quit;
 D
```

Item 15 of 63 Mark item for review

Given the SAS data set WORK. ONE:

Rep	Cost
SMITH	200
SMITH	400
JONES	100
SMITH	600
JONES	100

The following SAS program is submitted;

```
proc sql;
select
Rep,
avg(Cost)
from WORK.ONE
order by Rep
```

quit;

Which result set would be generated?

	A.
JONES	280
JONES	280
SMITH	280
SMITH	280
SMITH	280
В.	
JONES	600
SMITH	100
С.	
JONES	280
SMITH	280
D.	
JONES	100
JONES	100
SMITH	600
SMITH	600
SMITH	600

A

Item 16 of 63 Mark item for review

Given the SAS data sets:

WORK. MATH1A		WORK. MATH1B	
Name	Fi	Name	Fi
Lauren	L	Smith	M
Pate1	A	Lauren	L
Chang	Z	Pate1	A
Hillier	R		

```
The following SAS program is submitted:
 proc sql;
    select *
    from WORK. MATH1A
    [_insert_set_operator_]
    select *
    from WORK.MATH1B
 quit;
 The following output is desired:
       Name
                 Fi
       Lauren
       Pate1
                 A
       Chang
       Hillier
       Smith \\
                 L
       Lauren
       Patel
                 A
 Which SQL set operator completes the program
 and generates the desired output?
       A.
append corr
    В.
union corr
   C.
outer union corr
    D.
intersect corr
C
```

Which of the following is an advantage of SAS views?

A.

SAS views can access the most current data in files that are frequently updated.

В.

SAS views can avoid storing a SAS copy of a large data file.

C.

SAS views can decrease programming time.

D.

both A and B are true

D

Item 18 of 63 Mark item for review

In what order does SAS search for format definitions by default?

A.

- 1. WORK. FORMATS
- 2. LIBRARY. FORMATS

В.

- 1. LIBRARY. FORMATS
- 2. WORK. FORMATS

C.

There is no default order, it must be defined by the user.

D.

All user defined libraries that have a catalog named FORMATS, in alphabetic order.

Item 19 of 63 Mark item for review

Given the dataset WORK. STUDENTS:

Which WHERE statement successfully completes the program and produces a report?

```
A.
where upcase(Name) = upcase(&Value);

B.
where upcase(Name) = %upcase(&Value);

C.
where upcase(Name) = "upcase(&Value)";

D.
where upcase(Name) = "%upcase(&Value)";
```

D

Item 20 of 63 Mark item for review

```
The following SAS program is submitted:
  data WORK. TEMP;
     length A B 3 X;
     infile RAWDATA;
     input A B X;
 run;
 What is the length of variable A?
        A.
 3
     В.
8
    C.
WORK.TEMP is not created - X has an invalid length.
     D.
Unknown.
C ??
```

Item 21 of 63 Mark item for review

```
The following SAS program is submitted:

data WORK. NEW;

do i=1, 2, 3;

Next=cats('March' || i );

infile XYZ

filevar=Next

end=Eof;

do until (Eof);

input Dept $ Sales;

end;

end;
```

```
run;
The purpose of the FILEVAR=option on the INFILE statement is to name the variable Next, whose value:

A. points to a new input file.

B. is output to the SAS data set WORK.NEW.

C.
```

D. nts

points to an aggregate storage location.

is an input SAS data set reference.

Α

Item 22 of 63 Mark item for review

```
Given the following partial SAS log:

NOTE: SQL table SASHELP.CLASS was created like:

create table SASHELP.CLASS( bufsize=4096 )

(
Name char(8),
Sex char(1),
Age num,
Height num,
Weight num
);

Which SQL procedure statement
generated this output?
```

A.
CONTENTS FROM SASHELP. CLASS;

```
В.
CREATE FROM SASHELP. CLASS INTO LOG;
     C.
DESCRIBE TABLE SASHELP. CLASS;
     D.
VALIDATE SELECT * FROM SASHELP. CLASS;
C
Item 23 of 63 Mark item for review
 Given the SAS data set SASUSER. HIGHWAY:
 Steering Seatbelt Speed Status
                                       Count
                      0 - 29
                                          31
  absent
            No
                              serious
  absent
            No
                      0 - 29
                              not
                                        1419
  absent
            No
                      30 - 49
                             serious
                                        191
  absent
                      30-49 not
                                        2004
            no
                      50+
  absent
                              serious
                                         216
  The following SAS program is submitted:
  %macro SPLIT;
     proc sort
           data=SASUSER.HIGHWAY
           out=WORK. UNIQUES (keep=Status)
           nodupkey;
        by Status;
     run;
     data null;
        set uniques end=Lastobs;
        call symputx('Status' | |1eft(_n_), Status);
        if Lastobs then call symputx('Count',_n_);
     run;
```

%local i; data

```
%do i=1 %to &count;
           [_insert_reference_]
        %end;
        set SASUSER. HIGHWAY;
        select(Status);
           %do i=1 %to &Count;
              when("[_insert_reference_]") output [_insert_reference_];
           %end;
           otherwise;
        end:
     run;
   %mend;
  %SPLIT
  What macro variable reference completes
  the program to create the WORK. NOT and
  WORK. SERIOUS data sets?
        A.
&Status&i
     В.
&&Status&i
     C.
&Status&Count
     D.
&&Status&Count
 В
Item 24 of 63 Mark item for review
```

```
The following SAS program is submitted:
%1et Num1=7;
%1et Num2=3;
%1et Result=%eval(&Num1/&Num2);
```

```
%put &Result;
 What is the value of the macro variable Result
  when the %PUT statement executes?
        A.
2.3
     В.
     C.
 . (missing value)
2. 333333333333333
 В
Item 25 of 63 Mark item for review
 Given the SAS data set SASUSER. HIGHWAY:
 Steering Seatbelt Speed Status Count
                    0-29 serious
  absent
           No
                                      31
                    0-29 not
  absent
           No
                                    1419
 absent
                    30-49 serious
                                   191
           No
                                    2004
  absent
                    30-49 \text{ not}
           no
                    50+
                           serious
  absent
                                     216
           no
  The following SAS program is submitted:
 %macro HIGHWAY(Belt=no);
```

proc print data=SASUSER.HIGHWAY;
 where Seatbelt="&Belt" ;

run; %mend;

%HIGHWAY (Be1t=No)

How many observations appear in the generated report?

A.

0

В.

2

C.

3

D.

5

C

Item 26 of 63 Mark item for review

Given the following SAS data sets:

WORK. VISIT1		WORK.	VISIT2
Id	Expense	Id	Cost
001	500	001	300
001	400	002	600
003	350		

The following result set was summarized and consolidated using the SQL procedure:

Ιd	Cost
001	300
001	900
002	600
003	350

Which of the following SQL statements was most likely used to generate this result?

```
A.
 select
   Ιd,
   sum(Expense) label='COST'
from WORK. VISIT1
group by 1
union all
select
  Ιd,
   sum(Cost)
from WORK.VISIT2
group by 1
order by 1, 2
     В.
select
   id,
   sum(expense) as COST
f\,rom\,
   WORK.VISIT1(rename=(Expense=Cost)),
   WORK. VISIT2
where VISIT1. Id=VISIT2. Id
group by Id
order by
   Ιd,
  Cost
     C.
 select
  VISIT1. Id,
   sum(Cost) as Cost
   WORK. VISIT1 (rename=(Expense=Cost)),
   WORK. VISIT2
where VISIT1. Id=VISIT2. Id
group by Id
order by
   Ιd,
  Cost
```

```
D.
select
Id,
sum(Expense) as Cost
from WORK.VISIT1
group by Id
outer union corr
select
Id,
sum(Cost)
from WORK.VISIT2
group by Id
order by 1,2
;
```

A

Item 27 of 63 Mark item for review

Given the SAS data sets:

WORK. FIRST		WORK. SEC)ND
Common	X	Common	Y
A	10	A	1
A	13	A	3
A	14	В	4
В	9	В	2

The following SAS program is submitted:

```
data WORK.COMBINE;
   set WORK.FIRST;
   set WORK.SECOND;
run;
```

What data values are stored in data set WORK. COMBINE?

A. Comm	on	X	Y
		Λ	1
A	10	1	
A	13	3	
В	14	4	
В	9	2	
В.			
Common	X	Y	
Δ	10		
A A	10 13	1 3	
A		ა 3	
В	14 9	ა 4	
В	9	2	
D	9	Δ	
0			
C.			
C. Comm	on	X	Y
	on 	X 	Y
		X 1	Y
Comm			Y
Comm	 10	 1	Y
Comm A A	10 13	 1 3	Y
Comm A A A	10 13 14	 1 3	Y
Comm A A A B B	10 13 14 9	1 3 4	Y
Comm A A A B B D.	 10 13 14 9	1 3 4 2	Y
Comm A A A B B	 10 13 14 9	1 3 4	Y
Common D. Common D.	10 13 14 9	 1 3 4 2	Y
Common A A B B Common A Common	10 13 14 9 X 	 1 3 4 2	Y
Common A A B B D. Common ——— A A A	 10 13 14 9 X 10 13	 1 3 4 2 Y 1 1	Y
Common A A B B Common A A A A A A A A A A A	 10 13 14 9 X 10 13 14	 1 3 4 2 Y 1 1	Y
Common A A A A A A A A A A A A A A A A A A A	 10 13 14 9 X 10 13 14 10	 1 3 4 2 Y 1 1 1 3	Y
Common A A B B Common A A A A A A A A A A A	 10 13 14 9 X 10 13 14	 1 3 4 2 Y 1 1	Y

A

В

В

Item 28 of 63 Mark item for review

9 4

9 2

```
Which of the following ARRAY statements is similar to the statement array Yr\{1974:2007\} Yr1974-Yr2007; and will compile without errors?
```

```
A.
array Yr{34} Yr1974-Yr2007;

B.
array Yr{74:07} Yr1974-Yr2007;

C.
array Yr{74-07} Yr1974-Yr2007;

D.
array Yr{1974-2007} Yr1974-Yr2007;
```

A

Item 29 of 63 Mark item for review

The following program is submitted to check the variables Xa, Xb, and Xc in the SASUSER.LOOK data set:

```
data _null_ WORK.BAD_DATA / view=WORK.BAD_DATA ;
  set SASUSER.LOOK(keep=Xa Xb Xc);
  length _Check_ $ 10 ;
  if Xa=. then _check_=trim(_Check_)!!" Xa";
  if Xb=. then _check_=trim(_Check_)!!" Xb";
  if Xc=. then _check_=trim(_Check_)!!" Xc";
  put Xa= Xb= Xc= _check_=;
  run;
```

When is the PUT statement executed?

A. when the code is submitted

 $$\rm B.$$ only when the WORK. BAD_DATA view is used

```
both when the code is submitted and the view is used
    D.
 never, the use of _null_ in a view is a syntax error
В
Item 30 of 63 Mark item for review
 The following SAS program is submitted:
%let product=merchandise;
[_insert_%put_statement_]
 and the following message is written to the SAS log:
      the value is "merchandise"
  Which macro statement wrote this message?
        A.
%put the value is '"'&product.'"';
    В.
%put the value is %quote(&product.);
    C.
%put the value is "%product.";
    D.
%put the value is ""%product."";
C
```

C.

Item 31 of 63 Mark item for review

Given the SAS data sets:

WORK. ONE		WORK. TWO	
X	Y	SumY	
A	10	36	
A	3		
A	14		
В	9		

The following SAS DATA step is submitted:

data WORK.COMBINE;
 if _n_=1 then set WORK.TWO;
 set WORK.ONE;
run;

What data values are stored in data set WORK.COMBINE?

 $$\rm A.$$ An ERROR message is written to the SAS log and the data set WORK. COMBINE is not created.

Item 32 of 63 Mark item for review

```
The following SAS program is submitted:

data WORK. NEW(bufno=4);
    set WORK. OLD(bufno=3);
run;

Why are the BUFNO options used?

A.
to reduce memory usage

    B.
to reduce CPU time usage

    C.
to reduce the amount of data read

    D.
to reduce the number of I/O operations
D
```

Item 33 of 63 Mark item for review

```
Given the following program and desired results:

%let Thing1=gift;
%let Thing2=surprise;
%let Gift1=book;
%let Gift2=jewelry;
%let Surprise1=dinner;
%let Surprise2=movie;
```

```
%let Pick=2;
%let Choice=surprise;

Desired %PUT Results in LOG:
My favorite surprise is a movie

What is the correct %PUT statement
that generates the desired results?

A.
%put My favorite &Thing&Pick is a &&Choice&Pick;
B.
%put My favorite &&Thing&pick is a &&&Choice&Pick;
C.
%put My favorite &Choice&pick is a &&Thing&Pick;
D.
%put My favorite &&Choice&pick is a &&&Thing&Pick;
B
```

Item 34 of 63 Mark item for review

Given the SAS dataset WORK.ONE

Name	Salary
Hans	200
Maria	205
Jose	310
Ariel	523

The following SAS program is submitted:

```
proc sq1;
   [_insert_select_clause_]
   from WORK.ONE
   :
```

quit;

The following output is desired:

Salary	Bonus
200	20
205	20. 5
310	31
523	52.3

Which SQL procedure clause completes the program and generates the desired output?

A.

select Salary Bonus as Salary*.10 as Bonus

В.

select Salary Bonus=Salary*.10 'Bonus'

C.

select Salary, Salary*.10 label='Bonus'

D.

select Salary, Salary*.10 column="Bonus"

Item 35 of 63 Mark item for review

The following SAS program is submitted:

options reuse=YES;
data SASUSER.REALESTATE(compress=CHAR);
set SASUSER.HOUSES;

run;

What is the effect of the reuse=YES SAS system option?

A.

It allows updates in place.

В.

It tracks and recycles free space.

C.

It allows a permanently stored SAS data set to be replaced.

D.

It allows users to access the same SAS data set concurrently.

В

Item 36 of 63 Mark item for review

Which statement is true for Data step HASH objects?

A.

The key component must be numeric.

В.

The data component may consist of numeric and character values.

C.

The HASH object is created in one step and referenced in another.

D.

The HASH object must be smaller than 2 to the $8 \, \mathrm{th}$ power bytes.

В

Item 37 of 63 Mark item for review

Given the SAS data sets:

WORK, CLASS1

WORK. CLASS2

Name	Course	Name	Class
Lauren	MATH1	Smith	MATH2
Pate1	MATH1	Farmer	MATH2
Chang	MATH1	Pate1	MATH2
Chang	MATH3	Hillier	MATH2

The following SAS program is submitted:

```
proc sql;
   select Name
   from WORK.CLASS1
   [_insert_set_operator_]
   select Name
   from WORK.CLASS2
   ;
quit;
```

The following output is desired:

Name
---Chang
Chang

Lauren

Which SQL set operator completes the program and generates the desired output?

A. intersect corr

B. except all

C. intersect all

D. left except

Item 38 of 63 Mark item for review

```
The following SAS program is submitted:
    %macro CHECK(Num=4);
        %1et Result=%eval(&Num gt 5);
        %put Result is &result;
    %mend;
    %check(Num=10)
 What is written to the SAS log?
        A.
Result is 0
    В.
Result is 1
    C.
Result is 10 gt 5
    D.
Result is true
Item 39 of 63 Mark item for review
 The following SAS program is submitted:
 %let Mv=shoes;
 %macro PRODUCT(Mv=bicycles);
    %let Mv=clothes;
 %mend;
 %PRODUCT(Mv=tents)
```

%put Mv is &Mv;

A. Mv is bicycles В. Mv is clothes C. Mv is shoes D. Mv is tents Item 40 of 63 Mark item for review Which of the following SAS System options can aid in benchmarking? Α. BUFSIZE= and BUFNO= В. FULLSTIMER C. IOBLOCKSIZE= D. SYSTIMER

Item 41 of 63 Mark item for review

В

Given the following macro program:

```
%macro MAKEPGM(NEWNAME, SETNAME, PRINT);
     data &NEWNAME;
        set &SETNAME;
    run;
    %if &PRINT=YES %then %do;
        proc print data=&NEWNAME.(obs=10);
        run ;
    %end;
 %mend;
 Which option would provide feedback in the
  log about the parameter values passed into
  this macro when invoked?
        A.
MPRINT
    В.
MDEBUG
    C.
MLOGIC
    D.
MPARAM
Item 42 of 63 Mark item for review
 The NOTSORTED option on the BY statement
  cannot be used with which other statement
 or option?
        A.
SET
    В.
```

MERGE

C.

IF FIRST. by-variable

D.

BY GROUPFORMAT by-variable

В

Item 43 of 63 Mark item for review

Given the SAS data set WORK. ONE:

Rep	Cost
SMITH	200
SMITH	400
JONES	100
SMITH	600
JONES	100

The following SAS program is submitted:

```
proc sq1;
    select
        Rep,
        avg(Cost) as Average
    from WORK.ONE
    [either__insert_SQL_where_clause_]
    group by Rep
    [_or__ _insert_SQL_having_clause_]
    ;
quit;
```

The following output is desired:

Rep	Average
SMITH	400

Which SQL clause completes the program and generates the desired output?

```
A.
where calculated Average > (select avg(Cost) from WORK.ONE)

B.
having Average > (select avg(Cost) from WORK.ONE)

C.
having avg(Cost) < (select avg(Cost) from WORK.ONE)

D.
where avg(Cost) > (select avg(Cost) from WORK.ONE)

B
```

Item 44 of 63 Mark item for review

Which dictionary table provides information on each occurrence of the variable named LastName?

A.

DICTIONARY. TABLES

B. DICTIONARY. COLUMNS

C.

DICTIONARY. MEMBERS

D.

DICTIONARY. VARIABLES

В

Item 45 of 63 Mark item for review

To create a list of unique Customer_Id values from the customer data set, which

of the following techniques can be used?

technique 1: proc SORT with NODUPKEY and OUT= technique 2: data step with IF FIRST. Customer_Id=1

technique 3: proc SQL with the SELECT DISTINCT statement

A. only technique 1

В. techniques 1 and 2

C. techniques 1 and 3

D. techniques 1, 2, or 3

Item 46 of 63 Mark item for review

Given the SAS data sets:

WORK. CLASS1		WORK. CLASS2	
Name	Course	Name	Class
Lauren	MATH1	Smith	MATH2
Patel	MATH1	Farmer	MATH2
Chang	MATH1	Pate1	MATH2
		Hillier	MATH2

The following SAS program is submitted:

```
proc sq1;
   select Name
   from WORK. CLASS1
   [_insert_set_operator_]
   select Name
   from WORK. CLASS2
```

```
quit;
 The following output is desired:
            Name
            Chang
            Lauren
 Which SQL set operator completes the program and
 generates the desired output?
       A.
intersect corr
    В.
except
    C.
intersect
    D.
left except
В
```

Item 47 of 63 Mark item for review

```
The following SAS program is submitted:

%macro execute;

[_insert_statement_here_]

    proc print data=SASUSER. HOUSES;

    run;

%end;

%mend execute;

%execute

Which statement completes the program so that the PROC PRINT step executes on Thursday?
```

```
A.
 if &sysday = Thursday then %do;
     В.
%if &sysday = Thursday %then %do;
    C.
%if "&sysday" = Thursday %then %do;
     D.
%if &sysday = "Thursday" %then %do;
В
Item 48 of 63 Mark item for review
```

```
Given the following program and data:
data WORK.BDAYINFO;
  infile datalines;
  input Name $ Birthday : mmddyy10.;
datalines;
Alan 11/15/1950
Barb 08/23/1966
Carl 09/01/1963
run;
%1et Want=23AUG1966;
proc print data=WORK.BDAYINFO;
  [_insert_statement_]
run;
What is the WHERE statement that successfully
completes the PROC PRINT and selects the
observation for Barb?
```

```
A.
where Birthday=&Want;
```

```
B.
where Birthday="&Want";

C.
where Birthday="&Want"d;

D.
where Birthday='&Want'd;

C
```

Item 49 of 63 Mark item for review

Which macro statement would remove the macro variable Mv_Info from the symbol table?

A. %mdelete &Mv_Info;

%symerase Mv_Info;

C. %symdel &Mv_Info;

D. %symdel Mv_Info;

D

Item 50 of 63 Mark item for review

The table WORK.PILOTS contains the following data:

Id	Name	Jobcode	Salary
001	Albert	PT1	50000
002	Brenda	PT1	70000
003	Carl	PT1	60000

004	Donna	PT2	80000
005	Edward	PT2	90000
006	Flora	PT3	100000

A query was constructed to display the pilot salary means at each level of Jobcode and the difference to the overall mean salary:

Jobcode	Average	Difference
PT1	60000	-15000
PT2	85000	10000
PT3	100000	25000

Which select statement could NOT have produced this output?

```
A.
 select
   Jobcode,
  avg(Salary) as Average,
   calculated Average - Overall as difference
from
   WORK. PILOTS,
   (select avg(Salary) as Overall from WORK.PILOTS)
group by jobcode
    В.
 select
  Jobcode,
  avg(Salary) as Average,
   (select avg(Salary) from WORK.PILOTS) as Overall,
                                                          as…from
   calculated Average - Overall as Difference
from WORK. PILOTS
group by 1
    C.
 select
   Jobcode,
   Average,
   Average-Overall as Difference
```

```
from
    (select Jobcode, avg(Salary) as Average
    from WORK.PILOTS
    group by 1),
    (select avg(Salary) as Overall
    from WORK.PILOTS)
;

D.
select
    Jobcode,
    avg(Salary) as Average,
    calculated Average-(select avg(Salary) from WORK.PILOTS)
        as Difference
from WORK.PILOTS
group by 1
;
B
```

Item 51 of 63 Mark item for review

The SAS data set WORK.TEMP is indexed on the variable Id:

```
Id Amount
-- -----
P    52
P    45
A    13
A    56
R    34
R    12
R    78

The following SAS program is submitted:
proc print data=WORK. TEMP;
```

Which BY statement completes the program,

[_insert_BY_statement_]

run;

creates a listing report that is grouped by Id, and completes without errors?

A.

by Id;

В.

by Id grouped;

C.

by Id descending;

D.

by descending Id;

Α

Item 52 of 63 Mark item for review

To create a dataset with unique values of a given varible using a data step and the FIRST. and LAST. varaibales, it is assumed that the input dataset is:

A.

sorted on that variable.

В.

indexed by that variable.

C.

naturally in order.

D.

any of the above A, B, or C

A

Item 53 of 63 Mark item for review

The SASFILE statement requests that a SAS data set be opened and loaded into memory:

A.

one page at a time.

В.

one variable at a time.

C.

one observation at a time.

D.

in its entirety, if possible.

D

Item 54 of 63 Mark item for review

The following SAS program is submitted:

%1et Name1=Shoes;

%1et Name2=Clothes;

%let Root=name;

%1et Suffix=2;

%put &&&Root&Suffix;

What is written to the SAS log?

A.

&Name2

В.

Clothes

C.

&&&Root&Suffix

D.

Item 55 of 63 Mark item for review

Given the SAS data sets:

WORK.	ONE		WORK.	TWO	
Year	Qtr	Budget	Year	Qtr	Sales
2001	3	500	2001	4	300
2001	4	400	2002	1	600
2003	1	350			

The following SAS program is submitted:

```
proc sq1;
    select
      TWO.*,
      budget
    from
      WORK.ONE
      [_insert_join_operator_]
      WORK.TWO
      on ONE.Year=TWO.Year
    ;
quit;
```

The following output is desired:

Year	Qtr	Sales	Budget
2001	4	300	500
2001	4	300	400
2002	1	600	•
•			350

Which join operator completes the program and generates the desired output?

```
A.
 left join
    В.
right join
    C.
full join
    D.
outer join
C
Item 56 of 63 Mark item for review
   The SAS data set WORK. ADDRESSES contains
   the email addresses of The XYZ Corporation's
   customers in a variable named Email_Address.
   The following DATA step is submitted:
   data _null_;
      set WORK. ADDRESSES;
      [_insert_statement_]
      put "filename mail email '" Email Address "'; ";
      put "data _null_;";
      put "
             file mail;";
      put "
              put 'Thank you for your continued';";
      put "
              put 'support of The XYZ Corporation.';";
              put 'We appreciate your patronage.';";
      put "
              put 'Sincerely,';";
              put 'The XYZ Corporation';";
     put "run;" ;
   run;
  Which statement completes the program
  and creates a SAS program file?
```

A.

infile "c:\email.sas";

```
B.
output "c:\email.sas";

C.
file "c:\email.sas";

D.
None of the above.
```

Item 57 of 63 Mark item for review

Which of the following is true about the COMPRESS=YES data set option?

A.

It uses the Ross Data Compression method to compress numeric data.

В.

C

It is most effective with character data that contains repeated characters.

C.

It is most effective with numeric data that represents large numeric values.

D.

It is most effective with character data that contains patterns, rather than simple repetitions.

В

Item 58 of 63 Mark item for review

Given the SAS dataset WORK.ONE:

```
Salary
         200
         205
         523
 The following SAS program is submitted:
 proc sql;
     select *
     from WORK. ONE
     [_insert_where_clause_]
 quit;
 The following output is desired:
      Salary
         200
         205
         523
 Which WHERE expression completes
  the program and generates the desired output?
        A.
where Salary is not .
     В.
where Salary ne missing
     C.
where Salary ne null
     D.
where Salary is not missing
Item 59 of 63 Mark item for review
  The SAS data set WORK. TEST has an index
```

on the variable Id and the following SAS

```
program is submitted.
  data WORK. TEST;
     set WORK. TEST (
        keep=Id Var_1 Var_2
        rename=(Id=Id_Code));
     Total=sum(Var_1, Var_2);
  run;
 Which describes the result of
  submitting the SAS program?
        A.
The index on Id is deleted.
     В.
The index on Id is updated as an index on Id_Code.
The index on Id is deleted and an index on Id_Code is created.
The index on Id is recreated as an index on Id_Code.
Item 60 of 63 Mark item for review
```

Given the data set SASHELP. CLASS:

Name	Age
Mary	15
Philip	16
Robert	12
Ronald	15

A

The following SAS program is submitted:

```
%macro MP_ONE(pname=means);
  proc &pname data=SASHELP.CLASS;
  run;
```

```
%mend;
 %MP_ONE(print)
 MP_ONE()
 Which PROC steps execute successfully?
       A.
PROC MEANS only
    В.
PROC PRINT only
    C.
PROC MEANS and PROC PRINT
    D.
No PROC steps execute successfully
A
Item 61 of 63 Mark item for review
 In a data step merge, the BY variables
  in all data sets must have the same:
       A.
name.
    В.
name and type.
    C.
name and length.
    D.
name, type, and length.
```

Item 62 of 63 Mark item for review

```
Given the following macro program
  and invocation:
  %macro MAKEPGM (NEWNAME, SETNAME);
     data &NEWNAME;
        set &SETNAME:
     run;
     %put ---> inside macro &NEWNAME &SETNAME;
  %mend;
  %MAKEPGM (WORK. NEW, SASHELP. CLASS)
  %put ---> outside macro &NEWNAME &SETNAME;
Which of these choices shows the correct %PUT
statement output if the program is submitted at
the beginning of a new SAS session? Note that
other lines may be written to the SAS log by the
program but only the %PUT output is shown here.
        A.
---> inside macro WORK. NEW SASHELP. CLASS
---> outside invocation WORK. NEW SASHELP. CLASS
     В.
---> inside macro WORK. NEW SASHELP. CLASS
---> outside invocation &NEWNAME &SETNAME
     C.
---> inside macro &NEWNAME &SETNAME
---> outside invocation WORK. NEW SASHELP. CLASS
 ---> inside macro &NEWNAME &SETNAME
---> outside invocation &NEWNAME &SETNAME
```

В

```
The following SAS program is submitted:
 %macro COLS1;
    Name Age;
 %mend;
 %macro COLS2;
   Height Weight;
 %mend;
 proc print data=SASHELP.CLASS;
   [_insert_VAR_statement_here_]
 run;
 Which VAR statement successfully completes
 the program to produce a report containing
 four variables?
       A.
var %COLS1 %COLS2;
    В.
var %COLS1-%COLS2;
    C.
var %COLS1 Weight Height;
    D.
var Weight Height %COLS1;
```

D