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QUESTION 1

Given the following data set:

```
STYSID1A  COLLDTM              HBA1C    GLUC  SGOT    SGPT
0001_0001 19961216:09:26       5.1      125   32.2    29.1
0001_0001 19961223:08:18       6.1      136   34.1    30.1
0001_0001 19961230:09:12       8.1      225   31.8    29.5
0001_0001 19970106:09:01       6.7      158   .       29.7
0001_0001 19970110:08:43       6.6      150   30.5    30.2
```

Which type of clinical trials data is this?

A. Laboratory

B. Baseline

C. Medical History

D. Vital Signs

Correct Answer: A

QUESTION 2

Study day is defined as DCMDATE minus RFSTDTC +1

DCMDATE
- is character data in YYYYMMDD format
- contains partial date values

RFSTDTC
- is character data in date9 format
- contains missing values

Which statement will compute the study day correctly without producing notes for missing values in the log?

A. STUDYDAY=DCMDATE-RFSTDTC+1;

B. STUDYDAY=input(DCMDATE,yymmdd8.)-input(RFSTDTC,date9.)+1;

C. If RFSTDTC^=\\'\\' and length(DCMDATE)=8 then
STUDYDAY=input(DCMDATE,yymmdd8.)-input(RFSTDTC,date9.)+1;

D. If RFSTDTC^=\\'\\' and length(DCMDATE)=8 then STUDYDAY=input(DCMDATE,date9.)-
input(RFSTDTC,yymmdd8.)+1;

Correct Answer: C

QUESTION 3

The following question will ask you to provide a line of missing code. Given the following data set work.vs:

```
subjid  visit sbp
  AO156     1 146
  AO156     2   .
  AO156     3 152
  AO156     4   .
  AO156     5 143
```

The following SAS program is submitted to create a new data set that carries forward the previous value of sbp when the value is missing.

```
data work.vs1;
  <insert missing code here>
  set work.vs;
  if sbp NE . then old_sbp = sbp;
  else sbp = old_sbp;
run;
```

The following SAS program is submitted to create a new data set that carries forward the previous value of sbp when the value is missing.

In the space below, enter the line of code that completes the program (Case is ignored. Do not add leading or trailing spaces to your answer.).

Correct Answer: RETAINOLD_SBP

QUESTION 4

Which SAS program will apply the data set label \\'Demographics\\' to the data set named DEMO?

A. data demo (label=\\'Demographics\\'); set demo; run;

B. data demo; set demo (label=\\'Demographics\\'); run;

C. data demo (label \\'Demographics\\'); set demo; run;

D. data demo; set demo; label demo= \\'Demographics\\'; run;

Correct Answer: A

QUESTION 5

A report that you are working on will require the following header lines:

```
              Table 5.4
            Adverse Events
By Body System, Preferred Term, and Greatest Severity
```

Which code adds the second line of the header "Adverse Events"?

A. header2 \\'Adverse Events\\';

B. header2 = \\'Adverse Events\\';

C. title2 = \\'Adverse Events\\';

D. title2 \\'Adverse Events\\';

Correct Answer: D

QUESTION 6

The following SAS program is submitted:

```
proc univariate data=WORK.STUDY;
   by VISIT;
   class REGION TREAT;
   var HBA1C GLUCOSE;
run;
```

You want to store all calculated means and standard deviations in one SAS data set.

Which statement must be added to the program?

A. output mean std;

B. ods output mean=m1 m2 std=s1 s2;

C. output out=WORK.RESULTS mean=m1 m2 std=s1 s2;

D. ods output out=WORK.RESULTS mean=m1 m2 std=s1 s2;

Correct Answer: C

QUESTION 7

Given the following vital signs data:

```
USUBJID       VISITC        VISITN      HR
1             Pre-screen    0           86
1             Screening     1           91
1             Day 1         2           .
1             Week 1        3           68
1             Week 2        4           73
1             Week 4        5           96
2             Pre-screen    0           84
2             Screening     1           .
2             Day 1         2           73
2             Week 1        3           73
2             Week 2        4           52
2             Week 4        5           59
```

Baseline is defined as the last non-missing value prior to Day 1.

What is the value for the change from baseline for Week 1 for Subject 2?

A. -23

B. 11

C. -11

D. 23

Correct Answer: C

QUESTION 8

Given the SAS data set WORK.BP

```
subjid SBP   DBP
------ ---   ---
01562  145   92
02457  130   87
03489  117   78
01598  135   85
02678  145   79
```

The following SAS program is submitted:

```
data
    WORK.HIGHBP
    WORK.NORMBP
    WORK.INVESTBP;
  set WORK.BP;
  if SBP gt 140 and DBP gt 90 then output WORK.HIGHBP;
  if SBP lt 120 and DBP lt 80 then output WORK.NORMBP;
  else output WORK.INVESTBP;
run;
```

What is the result?

A. WORK.HIGHBP has 1 observation WORK.NORMBP has 1 observation WORK.INVESTBP has 3 observations

B. WORK.HIGHBP has 1 observation WORK.NORMBP has 1 observation WORK.INVESTBP has 4 observations

C. WORK.HIGHBP has 1 observation WORK.NORMBP has 1 observation WORK.INVESTBP has 2 observations

D. WORK.HIGHBP has 2 observations WORK.NORMBP has 2 observations WORK.INVESTBP has 3 observations

Correct Answer: B

QUESTION 9

A SAS program is submitted and the following log is written.

```
893  data WORK.CHECKVISITS;
894    set WORK.VISITS(keep=PATID VISDT0 VISDT1 VISDT2 VISDT3 VISDT4);
895    array VISDT(1:4);
896    do i=1 to 4;
897      if VISDT(i) ?VISDT(i-1) gt 10 then output;
898    end;
899  run;

ERROR: Array subscript out of range at line 897 column 21.
```

What is the cause of this error message?

A. The ARRAY declaration is syntactically incorrect.

B. The IF statement is syntactically incorrect.

C. The DO loop tries to get a value from a variable which does not exist.

D. The IF statement tries to get ARRAY elements which are not declared.

Correct Answer: D

QUESTION 10

The following SAS program is submitted, but fails due to syntax errors.

```
data WORK.TOTALEXPEND(keep=MonthExp{12});
   set WORK.MONTHLYEXPEND(keep=Year Drug Disp);
   array MonthExp{12};
   do i=1 to 12;
      MonthExp{i}=Disp;
   end;
   drop i;
run;
```

What is the cause of the syntax errors?

A. The keep= data set option should be (keep=MonthExp*).

B. An array can only be referenced in a KEEP statement and not within a keep= data set option.

C. An array cannot be referenced on a keep= data set option.

D. The keep= data set option should be (keep=MonthExp).

Correct Answer: C

QUESTION 11

Given the following SAS program: Which statement correctly identifies invalid values in the variable TRT, if only the values \\'A\\', B\\', \\'C are valid?

```
data one;
  input subjid 1-2 trt $ 4-5 result $ 6-7 dtime 9-10 age 11-12;
  datalines;
01    CR 0 56
02 A PD 1 52
03 B PR 1 47
04 B CR 2 29
05 1 SD 1 39
06 C SD 3 21
07 C PD 2 90
01 A CR 0 43
03 B PD 1 56
;
run;
```

A. if indexc(TRT, \\'ABC\\') eq 0 then output;

B. if index(TRT, \\'ABC\\') eq 0 then output;

C. if find(TRT, \\'ABC\\') eq 0 then output;

D. if indexw(TRT, \\'ABC\\') eq 0 then output;

Correct Answer: A

QUESTION 12

The following SAS program is submitted:

```
data WORK.DATE;
  X="01Jan1960"d;
run;
```

Which value does variable X contain?

A. the numeric value 0

B. the character value "01Jan1960"

C. the date value 01011960

D. the code contains a syntax error and does not execute.

Correct Answer: A

QUESTION 13

Identify the CDISC model with the following characteristics:

?XML-based content and format standard

?facilitates the archive and interchange of the metadata and data for clinical research

?provides an accurate audit trail that is 21 CRF Part II compliant

A. Analysis Data Model (ADaM)

B. Operational Data Model (ODM)

C. Study Data Tabulation Model (SDTM)

D. Trial Design Model (TDM)

Correct Answer: B

QUESTION 14

You have acquired an existing program from a coworker which uses a macro. It is not immediately clear to you what this macro is doing. Which OPTION can be used to put the SAS statements generated by the macro execution into the LOG?

A. MPRINT

B. SYMBOLGEN

C. MLOGIC

D. MRECALL

Correct Answer: A

QUESTION 15

Given the following partial output data set:

SUBJID	VISIT	AGE	AGECAT
101	1	28	2
103	1	42	3
105	2	18	1
106	1	56	3
107	1	55	3

Which code was used to create AGECAT?

A. if age