Sample Questions

The following sample questions are not inclusive and do not necessarily represent all of the types of questions that comprise the exams. The questions are not designed to assess an individual's readiness to take a certification exam.

SAS Base Programming for SAS 9

Question 1

The following program is submitted.

```
data WORK.TEST;
   input Name $ Age;
datalines;
John +35
;
run;
```

Which values are stored in the output data set?

```
A. Name                  Age
   ---------------------
   John                   35
```

```
B. Name                  Age
   ---------------------
   John                  (missing value)
```

```
C. Name                  Age
   ---------------------
   (missing value)    (missing value)
```

D. The DATA step fails execution due to data errors.

correct_answer = "A"

Question 2

Given the SAS data set WORK.ONE:

```
 Id  Char1
---  -----
182  M
190  N
250  O
720  P
```

and the SAS data set WORK.TWO:

```
 Id  Char2
---  -----
182  Q
```

```
623  R
720  S
```

The following program is submitted:

```
data WORK.BOTH;
   merge WORK.ONE WORK.TWO;
   by Id;
run;
```

What is the first observation in the SAS data set WORK.BOTH?

```
A. Id  Char1  Char2
   ---  -----  -----
   182  M
```

```
B. Id  Char1  Char2
   ---  -----  -----
   182         Q
```

```
C. Id  Char1  Char2
   ---  -----  -----
   182  M      Q
```

```
D. Id  Char1  Char2
   ---  -----  -----
   720  P      S
```

correct_answer = "C"

Question 3

Given the text file COLORS.TXT:

```
----+----1----+----2----+----
RED     ORANGE  YELLOW  GREEN
BLUE    INDIGO  PURPLE  VIOLET
CYAN    WHITE   FUCSIA  BLACK
GRAY    BROWN   PINK    MAGENTA
```

The following SAS program is submitted:

```
data WORK.COLORS;
  infile 'COLORS.TXT';
  input @1 Var1 $ @8 Var2 $ @;
  input @1 Var3 $ @8 Var4 $ @;
run;
```

What will the data set WORK.COLORS contain?

```
A. Var1      Var2      Var3      Var4
   ------    ------    ------    ------
   RED       ORANGE    RED       ORANGE
   BLUE      INDIGO    BLUE      INDIGO
   CYAN      WHITE     CYAN      WHITE
   GRAY      BROWN     GRAY      BROWN
```

```
B. Var1      Var2      Var3      Var4
   ------    ------    ------    ------
   RED       ORANGE    BLUE      INDIGO
   CYAN      WHITE     GRAY      BROWN


C. Var1      Var2      Var3      Var4
   ------    ------    ------    ------
   RED       ORANGE    YELLOW    GREEN
   BLUE      INDIGO    PURPLE    VIOLET


D. Var1      Var2      Var3      Var4
   ------    ------    ------    ------
   RED       ORANGE    YELLOW    GREEN
   BLUE      INDIGO    PURPLE    VIOLET
   CYAN      WHITE     FUCSIA    BLACK
   GRAY      BROWN     PINK      MAGENTA
```

correct_answer = "A"

Question 4

Given the SAS data set WORK.INPUT:

```
Var1      Var2
------    -------
A         one
A         two
B         three
C         four
A         five
```

The following SAS program is submitted:

```
data WORK.ONE WORK.TWO;
  set WORK.INPUT;
  if Var1='A' then output WORK.ONE;
  output;
run;
```

How many observations will be in data set WORK.ONE?

Enter your numeric answer in the space below.

```
┌──────────────────────────────────────────────┐
│                                              │
└──────────────────────────────────────────────┘
```

correct_answer = "8"

Question 5

The following SAS program is submitted:

```
data WORK.LOOP;
  X = 0;
  do Index = 1 to 5  by  2;
    X = Index;
```

```
    end;
run;
```

Upon completion of execution, what are the values of the variables X and Index in the SAS data set named WORK.LOOP?

A. X = 3, Index = 5

B. X = 5, Index = 5

C. X = 5, Index = 6

D. X = 5, Index = 7

correct_answer = "D"

Question 6

The following SAS program is submitted:

```
proc format;
  value score  1  - 50  = 'Fail'
              51 - 100  = 'Pass';
run;
```

Which one of the following PRINT procedure steps correctly applies the format?

```
A. proc print data = SASUSER.CLASS;
      var test;
      format test score;
   run;
```

```
B. proc print data = SASUSER.CLASS;
      var test;
      format test score.;
   run;
```

```
C. proc print data = SASUSER.CLASS format = score;
      var test;
   run;
```

```
D. proc print data = SASUSER.CLASS format = score.;
      var test;
   run;
```

correct_answer = "B"

Question 7

This item will ask you to provide a line of missing code;

The SAS data set WORK.INPUT contains 10 observations, and includes the numeric variable Cost.

The following SAS program is submitted to accumulate the total value of Cost for the 10 observations:

```
data WORK.TOTAL;
  set WORK.INPUT;
  <insert code here>
```

```
      Total=Total+Cost;
   run;
```

Which statement correctly completes the program?

A. keep Total;

B. retain Total 0;

C. Total = 0;

D. If _N_ = 1 then Total = 0;

correct_answer = "B"

Question 8

This question will ask you to provide a line of missing code.

Given the following data set WORK.SALES:

```
SalesID  SalesJan  FebSales  MarchAmt
-------  --------  --------  --------
W6790          50       400       350
W7693          25       100       125
W1387           .       300       250
```

The following SAS program is submitted:

```
data WORK.QTR1;
   set WORK.SALES;
   array month{3} SalesJan FebSales MarchAmt;
   <insert code here>
run;
```

Which statement should be inserted to produce the following output?

```
SalesID  SalesJan  FebSales  MarchAmt  Qtr1
-------  --------  --------  --------  ----
W6790          50       400       350   800
W7693          25       100       125   250
W1387           .       300       250   550
```

A. Qtr1 = sum(of month{_ALL_});
B. Qtr1 = month{1} + month{2} + month{3};
C. Qtr1 = sum(of month{*});
D. Qtr1 = sum(of month{3});

correct_answer = "C"

Question 9

Given the following SAS error log

```
   44    data WORK.OUTPUT;
   45       set SASHELP.CLASS;
```

```
46        BMI=(Weight*703)/Height**2;
47        where bmi ge 20;
ERROR: Variable bmi is not on file SASHELP.CLASS.
48     run;
```

What change to the program will correct the error?

A. Replace the WHERE statement with an IF statement

B. Change the ** in the BMI formula to a single *

C. Change bmi to BMI in the WHERE statement

D. Add a (Keep=BMI) option to the SET statement

correct_answer = "A"

Question 10

The following SAS program is submitted:

```
data WORK.TEMP;
   Char1='0123456789';
   Char2=substr(Char1,3,4);
run;
```

What is the value of Char2?

A. 23

B. 34

C. 345

D. 2345

correct_answer = "D"