

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.

Clinical Trials Programming Using SAS 9

Question 1

What is the main focus of Good Clinical Practices (GCP)?

- A. harmonized data collection
- B. standard analysis practices
- C. protection of subjects
- D. standard monitoring practices

correct_answer = "C"

Question 2

Vital Signs are a component of which SDTM class?

- A. Findings
- B. Interventions
- C. Events
- D. Special Purpose

correct_answer = "A"

Question 3

Which option in the PROC EXPORT procedure overwrites an existing file?

- A. NEW
- B. OVERWRITE
- C. REPLACE
- D. KEEP

correct_answer = "C"

Question 4

Given the following data set WORK.DEMO:

PTID	Sex	Age	Height	Weight
689574	M	15	80.0	115.5
423698	F	14	65.5	90.0
758964	F	12	60.3	87.0
653347	F	14	62.8	98.5
493847	M	14	63.5	102.5

500029	M	12	57.3	83.0
513842	F	12	59.8	84.5
515151	F	15	62.5	112.5
522396	M	13	62.5	84.0
534787	M	12	59.0	99.5
875642	F	11	51.3	50.5
879653	F	15	75.3	105.0
542369	F	12	56.3	77.0
698754	F	11	50.5	70.0
656423	M	16	72.0	150.0
785412	M	12	67.8	121.0
785698	M	16	72.0	110.0
763284	M	11	57.5	85.0
968743	M	14	60.5	85.0
457826	M	18	74.0	165.0

The following SAS program is submitted:

```
proc print data=WORK.DEMO(firstobs=5 obs=10);
  where Sex='M';
run;
```

How many observations will be displayed?

- A. 4
- B. 6
- C. 7
- D. 8

correct_answer = "B"

Question 5

Given the following partial data set:

SUBJID	SAF	ITT	OTH
101	1	.	1
103	1	1	1
106	1	1	1
107	1	.	1

The following SAS program is submitted:

```
proc format;
  value stdypfmt
    1="Safety"
    2="Intent-to-Treat"
    3="Other";
run;

data test;
  set temp (keep=SUBJID ITT SAF OTH );
  by subjid;
  length STDYPOP $200;
  array pop{*} SAF ITT OTH ;
  do i=1 to 3;
```

```

        if STDYPOP="" and pop{i}=1 then STDYPOP=put(i, stdypfmt.);
        else if STDYPOP^="" and pop{i}=1 then STDYPOP = trim(STDYPOP)||"/"|
    end;
run;

```

What is the value of STDYPOP for SUBJID=107?

correct_answer = "Safety/Other"

Question 6

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

Given the data set WORK.STUDYDATA with the following variable list:

#	Variable	Type	Len	Label
2	DAY	Char	8	Study Day
3	DIABP	Num	8	Diastolic Blood Pressure
1	TRT	Char	8	Treatment

The following SAS program is submitted:

```

proc means data=WORK.STUDYDATA noprint;
  <insert code here>
  class TRT DAY;
  var DIABP;
  output out=WORK.DIAOUT mean=meandp;
run;

```

WORK.DIAOUT should contain:

- the mean diastolic blood pressure values for every day by treatment group
- the overall mean diastolic blood pressure for each treatment group

Which statement correctly completes the program to meet these requirements?

- where trt or trt*day;
- types trt trt*day;
- by trt day;
- id trt day;

correct_answer = "B"

Question 7

The following SAS program is submitted:

```

%let member1=Demog;
%let member2=Adverse;
%let Root=member;
%let Suffix=2;
%put &&&Root&Suffix;

```

What is written to the SAS log?

- &member2
- Adverse

C. &&&Root&Suffix

D. WARNING: Apparent symbolic reference ROOT2 not resolved.

correct_answer = "B"

Question 8

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

The following SAS program is submitted:

```
proc format ;
  value dayfmt 1='Sunday'
              2='Monday'
              3='Tuesday'
              4='Wednesday'
              5='Thursday'
              6='Friday'
              7='Saturday' ;
run ;

proc report data=diary ;
  column subject day var1 var2 ;
  <insert code here>
run ;
```

In the DIARY data set, the format DAYFMT is assigned to the variable DAY. Which statement will cause variable DAY to be printed in its unformatted order?

- A. define day / order 'Day' ;
- B. define day / order order=data 'Day' ;
- C. define day / order noprint 'Day' ;
- D. define day / order order=internal 'Day' ;

correct_answer = "D"

Question 9

You are using SAS software to create reports that will be output in a Rich Text Format so that it may be read by Microsoft Word. The report will span multiple pages and you want to display a '(Continued)' text at the end of each page when a table spans multiple pages.

Which statement can you add to the SAS program to ensure the inclusion of the '(Continued)' text?

- A. ods rtf file='report.rtf' ;
- B. ods tagsets.rtf file='report.rtf' ;
- C. ods tagsets.rtf file='report.rtf' break='Continued' ;
- D. ods file open='report.rtf' type=rtf break='(Continued)' ;

correct_answer = "B"

Question 10

What is the primary purpose of programming validation?

- A. Ensure that the output from both the original program and the validation program match.
- B. Efficiently ensure any logic errors are discovered early in the programming process.
- C. Justify the means used to accomplish the outcome of a program and ensure its accurate representation of the original data.
- D. Document all specifications pertaining to programmed output and ensure all were reviewed during the programming process.

correct_answer = "C"