



SAS BASE A00_211 CERTIFICATION SAMPLE QUESTIONS

Updated as per the latest change in SAS software and certification syllabus

Note: These are set of sample questions which is taken from our collection of 600 questions.

- 1. Hadoop Training
- 2. Spark Training
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About SAS Certifications: Advantaged of SAS® Base certification and How to prepare

If you are working or planning to work in data analytics (Data scientists). Then SAS® is the most popular commercial software and frankly speaking no analytics tool is as convenient as SAS®. That's the reason most of the organization prefer to use SAS®. In recent year, it has been seen that BigData became very popular and because of that Hadoop framework evolved.

In BigData world, SAS® is not behind and SAS® was already pioneer for analytics software. Hence, entering in BigData was very easy for SAS®. They enhanced their existing solution to support BigData. As well as it can be well integrated with the BigData solution.

Now let's talk about SAS® Base certification. If you are willing to grow in your career than you should certainly consider certification to justify your credentials. Many people say certification does not help. There are millions of certified programmer globally, it proves, that it is worth. So frankly speaking certification of any IT skills has a lot of value. If you have certified yourself from the vendor who own that particular IT product than that is even better. So, it is for sure certification has quite a good value to justify your credentials. It put you many steps ahead in your career path. By doing certification it is clear that

- A. You are working or willing to work on SAS®.
- B. It make sure, at least you have basic understanding of SAS®.
- C. You understand SAS® programming.
- D. You can be better than, compare to a person who is not certified (Possibly).
- E. Interviewer always keep in mind you are certified, while you are being interviewed.
- F. Your resume will always remain on top compare to who are not certified.
- G. It is clear that you understand data analytics.
- H. Your moral will always high, while working on SAS®.

What all are being asked in SAS® Base certification

SAS® Base certification, is relatively easier exam. Because SAS® programming itself is quite easy (4th Generation language). Yes, it require little practice to clear real exam. So the best way, is without spending any money you can install SAS® University edition. This is one of the best way to start practicing on Windows or Mac or Linux operating system. Even you don't required any advanced Hardware.

In this certification exam, you will be asked from basic to little advanced topic of SAS® Base. However, you should be aware how to write SAS® program using Data and Proc steps.

- A. How to use SAS® library, labels, and variables.
- B. Format and informat (very important)
- C. Using SAS® third party data import/export specially MS Excel.
- D. Sorting data
- E. Formatting output report. How to change title, footer etc.
- F. Using mathematical and logical operator (very important)
- G. Creating totals and subtotals based on groups.
- H. Debugging SAS® program.
- I. Summarization of data using Freq Proc

- J. Creating HTML, PDF, RTF and Excel based reports.
- K. Merging and combining datasets, (quite tricky topic).
- L. Looping , do-end, while, until etc. (some practice required)
- M. Understand TRUNCOVER option
- N. Various date formats.
- O. Reading multiline data in single observation and vice versa.

This is all summary of the things, which can be asked in the SAS® base exam. To prepare it in limited time you need guided and well-arranged material. Which you can easily get at below location. This is one of the best way to prepare and recommended.

- A. [SAS® Base certification professional training, with Hands-on sessions.](#)
- B. [SAS® Base latest and updated certification questions \(total 510 questions, all outdated questions are removed and new questions are added\)](#)
- C. [SAS® advanced certification preparation.](#)

My strategy to prepare for SAS Base certification (Score close to 90% marks)

It is usually enough to prepare for SAS Base certification using self-study material. Instructor led trainings (Especially for certifications) are not sufficient because they are not able to cover entire syllabus and small, granular details which are important for exam are not covered. Preparing for certification is always different than trainings, you need to understand fundamentals as well as good practice of questions. While you spend lot of money with that as well, and finally you will go for online material like questions (510+ SAS Base questions are available). And preparing for SAS base certification is not 4-5 days study. You really need to have at least 4 week of continuous study and practice as many questions as possible. Once you are done with that, than its easy cake to clear SAS Base certification.

Generally, you should refer one of the book and stick to that, rather than searching for more books online. First find few selected resources, which are below and stick with that. It will save lot of time and money of yours.

- A. [SAS® Base certification professional training, with Hands-on sessions.](#)
- B. [SAS® Base latest and updated certification questions \(total 510 questions, all outdated questions are removed and new questions are added\)](#)
- C. SAS Base Certification Book, published by SAS Inc.

This 3 Resources more than enough for you and don't get diverted. It will not take more than 4 weeks, if you study 3-4 hours a day, even you are new to SAS. 1000's of SAS aspirants have cleared SAS Base certification with more than 90% score (Check testimonials and feedback by them), what else you need. Don't waste your money, finding more resources here and there. Most of the places, you will find that they are giving you outdated material to prepare for that certification. Above mentioned material are regularly reviewed and kept up to date as per the latest syllabus, even before appearing in the exam, you can ask to them, if there are any updates regarding real exam than please share, they will send you updated material. Hence, it is always a good practice to ask for updated material at least one week before your real exam. Recently questions are being asked based on the functions, so you need to know how to use functions and which function is appropriate for the same. It is always good you run same programs given in this training to understand, how slight change in program can change the entire

result. This will not only help for your certification, even good for your routine work, because finally programming is about practice. Nobody can learn a programming just by reading a book.

Question 1: You are a good SAS programmer, hence whenever you write a program you will follow which of the following

- A. Whenever you write a DATA or PROC step, you will always start it with the first column
- B. Whatever statements you write inside the step, you should indent it properly.
- C. You always write RUN statement as a first column
- D. You should prefer multiple statement in single line, separated by semicolon
- E. You always assign a new label to column when output generated

Ans : A,B,C

Exp : There are some good programming practice

- Always start DATA and PROC step with the first column
- Any statement within the step should be well indented
- RUN statement should also start with first column
- You should avoid writing multiple statements in single line
- It is not necessary to assign new labels to the column
-

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Question 2: You have submitted a SAS program, but there seems to be an invalid option given in a statement, How would you identify that?

- A. Wherever is an invalid option given SAS will give Error message for that
- B. In the log message you can see that an option is not a valid or not recognized
- C. It will print wrong statement in the output window
- D. You have to carefully examine the SAS program, because SAS will not tell you about invalid option and will be ignored by the SAS.

Ans: B

Exp: When you run a SAS program with the statement that contains an invalid option, a log message will be printed that option is not valid or not recognized in log window.

Question 3: Which of the following program you see as a syntax error

- A.

```
data work.prices;
infile '/folders/myfolders/hesample1.dat';
input CODE $ NAME$ FEE1 FEE2;
      if NAME='SPARK;
run;
```

B. `dta work.prices;`
`infile '/folders/myfolders//hesample1.dat';`
`input CODE $ NAME$ FEE1 FEE2;`
`if NAME='SPARK;`
`run;`

C. `data work.prices;`
`infile '/folders/myfolders/hesample1.dat';`
`input CODE $ NAME$ FEE1 FEE2;`
`if NAME='SP__;`
`run;`

D. `data prices;`
`infile '/folders/myfolders/hesample1.dat';`
`input CODE $ NAME$ FEE1 FEE2;`
`if NAME='SPARK;`
`run;`

Ans: B

Exp: We can clearly see that the data statement is wrongly spelled instead of data it is dta.

Question 4: What action should you take once you submitted the below SAS program

```
proc print data=courses;  
where course='SPARK;  
run;
```

- A. After submitting to complete the program add another quotation mark on the log window, so program will be successfully completed
- B. Recall the program and add another quotation mark and re-submit the program.
- C. Cancel the currently submitted program, add the missing quotation and re-submit the corrected program.
- D. Recall the program, and remove existing quotation and re-submit the program.

Ans : C

Exp: In the given program you can see that there is an unbalanced quotation mark, and SAS is unable to detect the end of statement. Hence, already submitted program needs to cancel already submitted program and add the quotation mark and re-submit the program.

Question 5: You have submitted program in SAS window and active window shows that DATA Step running for long time, what does that mean?

- A. There is a spelling error with the SAS keyword
- B. You have not provided RUN statement at the end of Data step
- C. Data format is wrong
- D. Data file is empty

Ans: B

Exp: There are two reason when you see Data step running message on active window in SAS window environment

- When you missed the RUN statement after the DATA step
- When you have unbalanced quotation mark.

Question 6: You have been using SAS program since quite long time and you are always using the SAS PUTLOG statements, in which case it is very helpful?

- A. Syntax Error
- B. Semantic Errors
- C. Logical Errors
- D. Any of the above

Ans : C

Exp: PUTLOG statement is good if you are facing the logical error and you can use it to debug various values during the SAS program run. Logical errors means output generated is not as per your expectations.

Question 7: Which of the following code can generate below results?

Start On	ID	Start On	Training Venue	FEE
01MAR2017	1	01MAR2017	HADOOP	5000
01FEB2017	2	01FEB2017	SAS	6000
01JAN2017	3	01JAN2017	SPARK	4000
01JUL2017	7	01JUL2017	AWS	4999
01AUG2017	8	01AUG2017	Azure	4599
01SEP2017	9	01SEP2017	Google	6999

- A. `proc print data=hetrain.he1r1 noobs;`
`var ID DATE date8. LOCATION$ FEE;`
`label DATE='Start On' LOCATION='Training Venue';`
`where FEE>=4000;`
`run;`
- B. `proc print data=hetrain.he1r1;`
`var ID DATE date8. LOCATION$ FEE;`
`where FEE>=4000;`
`label DATE='Start On' LOCATION='Training Venue';`
`run;`
- C. `proc print data=hetrain.he1r1 label;`
`id date;`
`var ID DATE LOCATION FEE;`
`label DATE='Start On' LOCATION='Training Venue';`
`where FEE>=4000;`
`format DATE date10.;`
`run;`
- D. `proc print hetrain.he1r1 noobs;`
`id date;`
`var ID DATE date8. LOCATION FEE;`
`where FEE>=4000;`
`run;`

Ans: C

Exp: Replacing with Custom ID: If you want your own id in output from the dataset, to identify an observation.

Both ID and VAR: You can have both id and var to select specific columns in output. If column appears in both id and var than it will be two times in output.

Assigning Descriptive Label: You can assign up to 256 character long labels to table columns.

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Question 8: You have been given a dataset named “hetrain.helr1” , you have been using the PROC PRINT statement to print the dataset, with the labels. However, labels are not stored in the dataset than which of the following is a correct statement PROC PRINT statement >

- A.

```
proc print data=hetrain.helr1 label;  
  label welcome='Welcome to HadoopExam Learning Resources';  
run;
```
- B.

```
proc print data=hetrain.helr1;  
  label welcome='Welcome to HadoopExam Learning Resources';  
run;
```
- C.

```
proc print data hetrain.helr1 label noobs;  
run;
```
- D.

```
proc print hetrain.helr1 label;  
run;
```

Ans: A

Exp: Here we need to focus on correct syntax as well as option. In PROC PRINT we need to use DATA= option so that data can be printed. However, we wanted to give some description label to the variable name than we should have used label option in PROC PRIN statement and label statement for a particular variable to tell what should be the label for a variable.

Question 9. You have been given a data set, which contains all the training courses provided by the HadoopExam.com, now you need to select particular data which has only three courses in output which are Hadoop, SAS, and Spark. Which of the following is correct statement to select these specific courses?

- A.

```
where courses='Hadoop' or 'SAS' or 'Spark';
```
- B.

```
where courses in 'Hadoop' or 'SAS' or 'Spark';
```
- C.

```
where courses in (Hadoop, SAS, Spark);
```
- D.

```
where courses in ('Hadoop','SAS','Spark');
```

Ans : D

Exp: As you can see in the options only where condition is given and not the entire syntax. Hence, whenever you need to select particular value or values from the dataset where statement is one of the solution. However, we need to apply where statement correctly

In option 4, we are correctly using the syntax with the IN operator. Here, IN operator will help you select the courses from dataset. Whenever you have more than one values on which selection depends than you can use IN operator. Make sure values are in parenthesis and separated by comma as well if they

are character values then they should be individually enclosed by quotation mark. And values are case sensitive, hence it should be in the same case as stored with the dataset.

Question 10: You have been given some dataset “HETRAIN.HELR1”, now you need to sort this dataset and sorted data needs to be copied in new dataset named “NEWCOURSES”. Which of the following is correct syntax?

- A. `proc sort data=work.newcourses out=hetrain.helr1;`
`run;`
- B. `proc sort helr1 out=newcourses;`
`by name;`
`run;`
- C. `proc sort data=hetrain.helr1 out=work.newcourses;`
`by name;`
`run;`
- D. `proc sort from hetrain.helr1 to newcourses;`
`by name;`
`run;`

Ans: C

Exp : Whenever you want to sort the data you should have used SORT PROCEDURE. As per the sort syntax, you should try to create new dataset whenever possible otherwise it will overwrite your existing dataset. Hence, DATA= is the dataset you want to sort. OUT= is the option to create new sorted dataset. Also when you want to sort the data you need to provide on which column you want to sort the data. Here, in the given option it would be sorted by name. So correct syntax is provided in Option 3

Question 11: Which of the following statement is correct when you want Date to appear on top of the page and output should not have page number defined?

- A. When you want DATE without page number in output use system option date and withoutnumber
- B. When you want DATE without page number in output use system option date and withoutpagenumber
- C. When you want DATE without page number in output use system option date and NOBS
- D. When you want DATE without page number in output use system option date and NONNUMBER

Ans: D

Exp: You can provide system options as per your need. If you are running SAS university edition than try to download PDF output and see the results.

options linesize=64 nocenter number date;

NUMBER

specifies that SAS print the page number on the first title line of each page of SAS output.

NONUMBER

specifies that SAS not print the page number on the first title line of each page of SAS output.

DATE

specifies that the date and the time that the SAS program started are printed at the top of each page of the SAS log and any output that is created by SAS.

NODATE

specifies that the date and the time are not printed.

Some of the options example are below

NOCAPS Translate quoted strings and titles to upper case?

CENTER Center SAS output?

DATE Date printed in title?

ERRORS=20 Maximum number of observations with error messages

FIRSTOBS=1 First observation of each data set to be processed

FMterr Treat missing format or informat as an error?

LABEL Allow procedures to use variable labels?

LINEsize=96 Line size for printed output

MISSING=. Character printed to represent numeric missing values

NOTES Print SAS notes on log?

NUMBER Print page number on each page of SAS output?

OBS=MAX Number of last observation to be processed

PAGENO=1 Resets the current page number on the print file

PAGESIZE=54 Number of lines printed per page of output

PROBSIG=0 Number of significant figures guaranteed when printing P-values

REPLACE Allow replacement of permanent SAS data sets?

SOURCE List SAS source statements on log?

NOSOURCE2 List included SAS source statements on log?

YEARCUTOFF=1900 Cutoff year for DATE7. informat

Question 12: Which of the following program will create following output

Obs	DATE	LOCATION	FEE	NOOFSTUDENTS
1	20879	HADOOP	5000	20
2	20851	SAS	6000	30
3	20820	SPARK	4000	40
4	20910	KAFKA	3999	50
5	20940	Machine	2999	60
6	20971	Deep	3999	10
7	21001	AWS	4999	21
8	21032	Azure	4599	19
9	21063	Google	6999	100
10	21093	Scala	3999	110
			46593	460

- A. `proc print data=hetrain.helr2;`
`var DATE LOCATION FEE NOOFSTUDENTS;`
`sum FEE NOOFSTUDENTS;`
`run;`
- B. `proc print data=hetrain.helr2;`
`var DATE LOCATION ;`
`sum FEE NOOFSTUDENTS;`
`run;`
- C. `proc print data=hetrain.helr2;`
`var DATE LOCATION FEE;`
`sum FEE NOOFSTUDENTS;`
`run;`

Ans: A, B, C

Exp : All the given options are correct. You do not need to name the variables in a VAR statement if you specify them in the SUM statement, but you can. If you choose not to name the variables in the VAR statement as well, then the SUM statement determines their order in the output.

Question 13: What happens when you run the following program?

```
proc sort data=work.newcourses;
run;
```

```
proc print data=work.newcourses;
  var ID COURSENAME FEE;
  where Fee=5000;
run;
```

- A. PROC PRINT Step will run and print the result in sorted order.
- B. PROC SORT Step will permanently sort the given data
- C. PROC SORT Step generates errors and stop processing, but the PROC PRINT step runs successfully and printed result will not be sorted.
- D. PROC Sort step will run successfully, PROC PRINT step generates the error.

Ans : C

Exp : As you can see whenever you need to sort the data you have to provide on which variable you want to sort. As given in the question sort step does not have any BY statement, which causes SORT step to get failed. However, dataset exist hence print step will be successful and produce the result. See below the correct syntax.

```
proc sort data=hadoopexam.courses;
  by price;
run;
proc print data=hadoopexam.courses;
run;
```

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Question 14. You will be running below program

```
proc sort data=hetrain.he1r1 out=work.he1r2;
by FEE ID ;
run;

proc print data=work.he1r2 noobs;
  var ID DATE LOCATION FEE ;
  sum FEE DATE;
  format FEE DOLLAR9.;
  label DATE='Start On' LOCATION='Training Venue';
run;
```

What is the output will be generated

ID	DATE	LOCATION	FEE
5	20940	Machine	\$2,999
4	20910	KAFKA	\$3,999
6	20971	Deep	\$3,999
10	21093	Scala	\$3,999
3	20820	SPARK	\$4,000
8	21032	Azure	\$4,599
7	21001	AWS	\$4,999
1	20879	HADOOP	\$5,000
2	20851	SAS	\$6,000
9	21063	Google	\$6,999
	209560		\$46,593

A.

ID	DATE	LOCATION	FEE
5	20940	Machine	2999
4	20910	KAFKA	3999
6	20971	Deep	3999
10	21093	Scala	3999
3	20820	SPARK	4000
8	21032	Azure	4599
7	21001	AWS	4999
1	20879	HADOOP	5000
2	20851	SAS	6000
9	21063	Google	6999
	209560		46593

B.

ID	DATE	LOCATION	FEE
5	20940	Machine	\$2,999
4	20910	KAFKA	\$3,999
6	20971	Deep	\$3,999
10	21093	Scala	\$3,999
3	20820	SPARK	\$4,000
8	21032	Azure	\$4,599
7	21001	AWS	\$4,999
1	20879	HADOOP	\$5,000
2	20851	SAS	\$6,000
9	21063	Google	\$6,999
			\$46,593

C.

ID	DATE	LOCATION	FEE
5	20940	Machine	\$2,999
4	20910	KAFKA	\$3,999
6	20971	Deep	\$3,999
10	21093	Scala	\$3,999
3	20820	SPARK	\$4,000
8	21032	Azure	\$4,599
7	21001	AWS	\$4,999
1	20879	HADOOP	\$5,000
2	20851	SAS	\$6,000
9	21063	Google	\$6,999
	209560		\$46,593

D.

Ans : A

Exp : You should check Syntax as well as each statement used in the program. Code Syntax is correct, now you can see there is a sum on two columns DATE and FEE, Hence , option 3 is out. They have used label statement hence option 4 is out. Fee has a DOLLAR format, it means some would also have the same format, so option 2 is out. And option A is correct as per given program.

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Question 15: You have to [get full question here](#) are met

1. Course fee is less than or equal to \$4000
2. The course id is 1 or course name is 'Spark'

- A. where fee <= 4000 and id=1 or name='Spark';
- B. where (fee <= 4000 and id=1) or name='Spark';
- C. [correct option](#)
- D. where fee <= 4000 or id=1 and name='Spark';

Ans : C

Exp: As given requirement you can build your own expression and compare it with the given option.

Fee<=4000 or you can write Fee <= 4000 as well.

Now the important thing is in 2nd requirement they want multiple conditions to be satisfied. Hence, they should be written in parenthesis to be correctly evaluated. Which you can write as below

(id =1 or name = 'Spark')

Now both the conditions should be satisfied. Hence, we need to use AND operator in between both the conditions.

Fee<=4000 AND (id =1 or name = 'Spark')

Equivalent option for this is Option 3 . Hence, option 3 is correct.

Question 16: Which of the [get full question here?](#)

- A. When you use PROC PRINT, you need to provide specific variables. As by default it cannot create any report.
- B. Using PROC PRINT statement you can print all the ROWS and COLUMNS which exists in dataset. However, you can request more sample data to be extracted if required.
- C. PROC PRINT always gives data in sorted order of first variable, whether data is sorted or not.
- D. [correct option](#).

Ans : D

Exp : When you use PROC PRINT statement it will certainly generate a report if there is any data. First column by default will be ID column and other column will be printed in the order in which it is stored.

Question 17: Which of the [get full question here](#) “allhecrs”

- A. libname allhecrs '/folders/myfolders/hedata/hecourses2017t.dat';
- B. file allhecrs '/folders/myfolders/hedata/hecourses2017t.dat';

- C. [correct option](#);
- D. filename allhecrs '/folders/myfolders/hedata/hecourses2017t.dat';

Ans : C

Exp: See the following statements for the explanation

- LIBNAME -> It reference a SAS library. It is used to refer SAS library.
- FILENAME -> It references external file. It is similar to the libref. However, will be used to refer an external file.
- DATA -> Give the name to SAS dataset
- INFILE -> To identify an external file
- INPUT -> It describes the data

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Question 18: You have created a [get full question here](#) will be available

filename allhecrs '/folders/myfolders/hedata/hecourses2017t.dat';

- A. [correct option](#)
- B. If you clear this
- C. [correct option](#)

Ans: A,B,C

Exp: fileref and libref will have the same scope. As soon as you update it, clear it or close the session they will be removed and you have to create again.

Question 19: You have created a [get full question here](#) 15 records. Which of the following statement you will be using for this given requirement?

filename allhecrs '/folders/myfolders/hedata/hecourses2017t.dat';

- A. infile allhecrs obs 15;
- B. [correct option](#);
- C. file allhecrs obs 1-15;
- D. input allhecrs obs 15;

Ans : B

Exp: You can use fileref in the infile statement to read the data. However, you can use direct file path as well instead of fileref. Using obs=15 will restrict to read observation from 1 to 15.

Question 20: You have been [get full question here](#) ”

Obs	COURSE_ID	COURSE_NAME	LOCATION	FEE	DATE
1	100	SAS	MUMBAI	5000	01JAN17
2	101	DEEP LEARNING	PUNE	7000	01FEB17
3	102	MACHINE LEARNING	KOLKATA	7000	01MAR17
4	103	HADOOP DEVELOPER	BANGLORE	8000	01APR17
5	104	HADOOP ADMIN	HYDERABAD	9000	01MAY17
6	105	SPARK SCALA	CHENNAI	7000	01JUN17
7	106	SPARK PYTHON	GURGAON	6500	01JUL17
8	107	SPARK JAVA	NEW DELHI	6500	01AUG17
9	108	CORE JAVA	AHMEDABAD	5000	01SEP17
10	109	SAS ADVANCED	MUMBAI	5000	01OCT17
11	110	JAVA ADVANCED	JODHPUR	5000	01NOV17

Now you need to write this dataset to a raw file on UNIX platform, how can you do that?

- A. `data _null_;`
`set work.hadoopexam;`
`file "/folders/myfolders/hedata/filtered.dat";`
`put COURSE_ID COURSE_NAME LOCATION$ FEE DATE ;`
`run;`
- B. `data hetrain.hadoopexam;`
`set work.hadoopexam;`
`file "/folders/myfolders/hedata/filtered.dat";`
`put COURSE_ID COURSE_NAME LOCATION$ FEE DATE ;`
`run;`
- C. `data _null_;`
`set work.hadoopexam;`
`infile "/folders/myfolders/hedata/filtered.dat";`
`put COURSE_ID COURSE_NAME LOCATION$ FEE DATE ;`
`run;`
- D. [correct option](#);

Ans : D

Exp: Creating a raw file using SAS RAW DATASET is given below.

NULL: It means you are avoiding to create a new SAS dataset. We just want to create a new data file.

PUT: It will help you select columns from the existing source dataset in this case work.course2017.

FILE PRINT : This option help you to print the contents in the file.

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Question 21: You have been [get full question here](#)

A.

```
100 SAS                MUMBAI    5000 01-JAN-2017
101 DEEP LEARNING     PUNE      7000 01-FEB-2017
102 MACHINE LEARNING  KOLKATA   7000 01-MAR-2017
103 HADOOP DEVELOPER  BANGLORE  8000 01-APR-2017
```

B.

```
101 DEEP LEARNING     PUNE      7000 01-FEB-2017
102 MACHINE LEARNING  KOLKATA   7000 01-MAR-2017
103 HADOOP DEVELOPER  BANGLORE  8000 01-APR-2017
100 SAS MUMBAI        5000 01-JAN-2017
```

C.

```
101 DEEP LEARNING     PUNE      $7000.00 01-FEB-2017
102 MACHINE LEARNING  KOLKATA   $7000.00 01-MAR-2017
103 HADOOP DEVELOPER  BANGLORE  $8000.00 01-APR-2017
100 SAS MUMBAI        5000.00 01-JAN-2017
```

Which of the above can be correctly read using Column Input format?

Ans : Only B

Exp: Column Input required that each column should have fixed width. Option B does not satisfy this. And it can read only numeric and character values and cannot read special character like \$.

Question 22: You have been given [get full question here](#)

```
1 100 SAS                MUMBAI    5000 01-JAN-2017
2 101 DEEP LEARNING     PUNE      7000 01-FEB-2017
3 102 MACHINE LEARNING  KOLKATA   7000 01-MAR-2017
4 103 HADOOP DEVELOPER  BANGLORE  8000 01-APR-2017
5 104 HADOOP ADMIN      HYDERABAD NINE 01-MAY-2017
6 105 SPARK SCALA       CHENNAI   NINE 01-JUN-2017
7 106 SPARK PYTHON      GURGAON   6500 01-JUL-2017
8 107 SPARK JAVA        NEW DELHI 6500 01-AUG-2017
9 108 CORE JAVA         AHMEDABAD 5000 01-SEP-2017
10 109 SAS ADVANCED      MUMBAI    5000 01-OCT-2017
11 110 JAVA ADVANCED     JODHPUR   5000 01-NOV-2017
```

Which of the following program can generate output as below.

Obs	COURSE_ID	COURSE_NAME	LOCATION	FEE
1	100	SAS	MUMBAI	5000
2	101	DEEP LEARNING	PUNE	7000
3	102	MACHINE LEARNING	KOLKATA	7000
4	103	HADOOP DEVELOPER	BANGLORE	8000
5	104	HADOOP ADMIN	HYDERABAD	.
6	105	SPARK SCALA	CHENNAI	.
7	106	SPARK PYTHON	GURGAON	6500
8	107	SPARK JAVA	NEW DELHI	6500
9	108	CORE JAVA	AHMEDABAD	5000
10	109	SAS ADVANCED	MUMBAI	5000
11	110	JAVA ADVANCED	JODHPUR	5000

A. filename allhecrs '/folders/myfolders/hedata/wrongdata.dat';
data course2017;
infile allhecrs;
input COURSE_ID COURSE_NAME\$ LOCATION\$ FEE ;
run;
proc print data=course2017;
run;

B.

```
filename allhecrs '/folders/myfolders/hedata/wrongdata.dat';
data course2017;
infile wrongdata.dat;
input COURSE_ID 1-3 COURSE_NAME$ 5-20 LOCATION$ 22-30 FEE 32-35;
run;
proc print data=course2017;
run;
```

C. [correct option](#)

D.

```
libname allhecrs '/folders/myfolders/hedata/wrongdata.dat';
data course2017;
infile allhecrs;
input COURSE_ID 1-3 COURSE_NAME$ 5-20 LOCATION$ 22-30 FEE 32-35;
run;
proc print data=course2017;
run;
```

Ans : C

Exp: As you will be reading rawfile, hence you need to use filename option at first. Hence, option 4 is out. As you can see it is a fixed width file without column name, hence you need to use and provide

column width, which is not the case in 1st option , hence it is out. In option 2 it had used only infile option with filename without the path. Which is not correct you need to provide full path of the file or fileref which points to the actual file. Hence, option 2 is out. The only option remain is 3rd which is correct.

Question 23: You have [get full question here](#) ’

```

100 SAS                MUMBAI      5000 01-JAN-2017
101 DEEP LEARNING     PUNE        7000 01-FEB-2017
102 MACHINE LEARNING KOLKATA     7000 01-MAR-2017
103 HADOOP DEVELOPER  BANGLORE   8000 01-APR-2017
104 HADOOP ADMIN      HYDERABAD  NINE  01-MAY-2017
105 SPARK SCALA       CHENNAI    NINE  01-JUN-2017
106 SPARK PYTHON      GURGAON   6500 01-JUL-2017
107 SPARK JAVA        NEW DELHI  6500 01-AUG-2017
108 CORE JAVA         AHMEDABAD 5000 01-SEP-2017
109 SAS ADVANCED      MUMBAI     5000 01-OCT-2017
110 JAVA ADVANCED     JODHPUR    5000 01-NOV-2017

```

Where column widths are like that

- COURSE_ID 1 to 3
- COURSE_NAME 5 to 20
- LOCATION 22 to 30
- FEE 32-35
- DATE 36-47

Which of the following program will generate output like this.

Obs	COURSE_ID	COURSE_NAME	LOCATION	FEE
1	100	SAS	MUMBAI	5000
2	101	DEEP LEARNING	PUNE	7000
3	102	MACHINE LEARNING	KOLKATA	7000
4	103	HADOOP DEVELOPER	BANGLORE	8000
5	104	HADOOP ADMIN	HYDERABAD	.
6	105	SPARK SCALA	CHENNAI	.
7	106	SPARK PYTHON	GURGAON	6500
8	107	SPARK JAVA	NEW DELHI	6500
9	108	CORE JAVA	AHMEDABAD	5000
10	109	SAS ADVANCED	MUMBAI	5000
11	110	JAVA ADVANCED	JODHPUR	5000

- A. `data course2017;`
`infile allhecrs;`
`input COURSE_NAME$ LOCATION$ COURSE_ID FEE DATE date10.;`
`run;`
`proc print data=course2017;`

run;

B. correct option

C. data course2017;

infile allhecrs;

input COURSE_ID 1-3 COURSE_NAME\$ 5-20 LOCATION\$ 22-30 FEE 32-35 DATE date10. 36-47;

run;

proc print data=course2017;

run;

D. data course2017;

infile allhecrs;

variable COURSE_NAME\$ 5-20 LOCATION\$ 22-30 COURSE_ID 1-3 FEE 32-35 DATE date10. 36-

47;

run;

proc print data=course2017;

run;

Ans : B

Exp: You can use input statement to print fixed width data. However, you need to provide the exact width for each variable. However, here they want output to be in different order than actual file. The best option is in the input statement put the variable in the order in which they need to be used. In option 4 it had used variable statement instead of input, hence this is not correct.

Question 24: Which of the [get full question here](#) with the 200%?

A. Fee= fee*100;

B. correct option

C. Fee=fee*2;

D. Fee=*2;

Ans: 2

Exp: In option 1 you are increasing fee by 100 times. In option 2 you are increasing fee by 200% . Assume current fee is 5000 then after evaluating this expression fee will become $5000+(5000*2)=15000$. In option 3 fee will be 10000 and option 4 is not correct. Hence, option 2 is correct as per the given requirement.

Question 25: Which of the [get full question here](#) data

```

A
data course2017;
    input COURSE_ID 1-3 COURSE_NAME$ 5-20 LOCATION$ 22-30 FEE 32-
35 DATE$ 36-47 DURATION 48-50;
    if fee=5000 and location in ('MUMBAI' , 'AHMEDABAD');

100 SAS                MUMBAI        5000 01-JAN-2017 30
101 DEEP LEARNING     PUNE          7000 01-FEB-2017 24
102 MACHINE LEARNING KOLKATA       7000 01-MAR-2017 24
103 HADOOP DEVELOPER  BANGLORE     8000 01-APR-2017 40
;
run;
proc print data=course2017;
run;

```

```

B.
data course2017;
    input COURSE_ID 1-3 COURSE_NAME$ 5-20 LOCATION$ 22-30 FEE 32-
35 DATE$ 36-47 DURATION 48-50;
    if fee=5000 and location in ('MUMBAI' , 'AHMEDABAD');
    datalines;

100 SAS                MUMBAI        5000 01-JAN-2017 30
101 DEEP LEARNING     PUNE          7000 01-FEB-2017 24
102 MACHINE LEARNING KOLKATA       7000 01-MAR-2017 24
103 HADOOP DEVELOPER  BANGLORE     8000 01-APR-2017 40

```

```

C.
data course2017;
    input COURSE_ID COURSE_NAME$ LOCATION$ FEE DATE$ DURATION ;
    if fee=5000 and location in ('MUMBAI' , 'AHMEDABAD');
    datalines;

100 SAS                MUMBAI        5000 01-JAN-2017 30
101 DEEP LEARNING     PUNE          7000 01-FEB-2017 24
102 MACHINE LEARNING KOLKATA       7000 01-MAR-2017 24
103 HADOOP DEVELOPER  BANGLORE     8000 01-APR-2017 40

```

Ans: [correct option](#)

Exp: Because, it is fixed width data. Hence, column positions are required. And at the same time you have to provide datalines; or cards; statement to read inline data. If condition is required only for filtering out the data. Based on this option B is correct.

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Question 26: You have been given below dataset

1	100	SAS	MUMBAI	5000	01-JAN-2017
2	101	DEEP LEARNING	PUNE	7000	01-FEB-2017
3	102	MACHINE LEARNING	KOLKATA	7000	01-MAR-2017
4	103	HADOOP DEVELOPER	BANGLORE	8000	01-APR-2017
5	104	HADOOP ADMIN	HYDERABAD	NINE	01-MAY-2017
6	105	SPARK SCALA	CHENNAI	NINE	01-JUN-2017
7	106	SPARK PYTHON	GURGAON	6500	01-JUL-2017
8	107	SPARK JAVA	NEW DELHI	6500	01-AUG-2017
9	108	CORE JAVA	AHMEDABAD	5000	01-SEP-2017
10	109	SAS ADVANCED	MUMBAI	5000	01-OCT-2017
11	110	JAVA ADVANCED	JODHPUR	5000	01-NOV-2017

You need to process [get full question here](#) of the following statement is correct for this?

- A. `if fee=5000 and location NOT in ('MUMBAI' , 'AHMEDABAD');`
- B. `if fee>=5000 and location AND ('MUMBAI' , 'AHMEDABAD');`
- C. [correct option](#);
- D. `if fee>5000 OR location OR ('MUMBAI' , 'AHMEDABAD');`

Ans: C

Exp: To filter the data you can use if statement. However, you should be aware how the operators can be used. In this case IN clause will help you to filter the records which only satisfy the one of the condition in parenthesis. As well as greater than symbol will be used to satisfy fee condition. To satisfy all the conditions together you can use and operator for that.

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