



**IIBM Institute of Business Management**

**Examination Paper**

**MM.100**

**Business Analytics Using SAS**

- *This section consists of multiple choices and Short Notes type questions.*
- *Answer all the questions.*
- *Part one questions carry 1 mark each & Part two questions carry 5 marks each.*

**Section A: Objective Type & Short Questions (30 marks)**

**Part one:**

**Multiple choice:**

- I. Which one of the following is the value of the variable  
data work.one;a = 2;b = 3; c = a \*\*b;run;  
(1)
- a. 6
  - b. 8
  - c. 9
  - d. None of the above
- II. Which one of the following statement can't be part of  
"PROC FREQ" (1)
- a. Output
  - b. Weight
  - c. Set
  - d. Tables
- III. Which one is not a data type in SAS.  
(1)
- a. Numeric
  - b. Date
  - c. Character
  - d. Boolean
- IV. Which of the following statements are used to read delimited raw data file and create an SAS data set (1)
- a. Data, Infile, Input
  - b. Data, Set, Input
  - c. Data, Set, Infile
  - d. Data & Set
- V. Which of these is casual model technique  
(1)
- a. Moving average
  - b. Exponential Smoothing
  - c. Regression
  - d. Trend Model
- VI. When variance between predicted and actual values is not same, it is called -  
(1)
- a. Multicollinearity
  - b. Heteroskedasticity
  - c. Homoscedasticity
  - d. Autocorrelation

VII. Is there a limitation of records in SAS? (1)

- a. No
- b. Ye
- c. Can't say
- d. None of the above

VIII. Which one is not a window in SAS (1)

- a. Editor
- b. Log
- c. drive
- d. results

IX. what is syntax used for assigning library in SAS (1)

- a. LibSet
- b. LibData
- c. Data
- d. Libname

X. What is the syntax to print results in SAS (1)

- a. Proc set
- b. Proc print var
- c. Proc Print
- d. Proc Sql

**Part Two**

- 1 . Write data step to assign work dataset, say ABC with limitation of 10 observations only? (5)
2. Write the role of PDV in SAS (5)
3. Explain lib name function with read-only access (5)
4. What is the starting date in SAS, how does SAS reads any given date (5)

END OF SECTION A

**Section B: Caselets (40 marks)**

- *This section consists of Caselets.*
- *Answer all the questions.*
- *Each Caselet carries 20marks.*
- *Detailed information should form the part of your answer (Word limit 150 to 200 words).*

**Caselet 1**

1. Answer the question based on data given below. Name of the dataset is **class-**

Roll Number	Class	Age	Gender	Subject	Sports
001	1	10	M	Maths	Cricket

002	1	11	M	English	Tennis
003	2	9	F	Maths	Football
004	4	7	F	Science	Football
005	3	7	M	Maths	Cricket
006	5	10	F	Science	Tennis
007	3	7	F	Art	Cricket

**Questions**

1. Write code to see frequency distribution by Gender & Subject? (10)
2. Write code to filter student age less than 10 and like football and Maths? (10)
3. Write code to sort the data by age? (10)
4. Which sport has the maximum demand, write code to see proportionate (10)

**Section C: Applied Theory (30 marks)**

- *This section consists of Applied Theory Questions.*
- *Answer all the questions.*
- *Each question carries 15marks.*
- *Detailed information should form the part of your answer (Word limit 200 to 250 words).*

1. Explain how SAS can replace excel, talk about 3 key features of SAS? (15)
2. What is the meaning of debugging in SAS, how can it help in code writing? (15)

END OF SECTION C

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