Total No. of Questions: 6

Total No. of Printed Pages:3

Enrollment No.....



Faculty of Management Studies End Sem Examination Dec-2023 MS5CO29

Introduction to Business Analytics & Data Science
Programme: MBA Branch/Specialisation: Management

Duration: 3 Hrs. Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d. Assume suitable data if necessary. Notations and symbols have their usual meaning.

Q.1 i. Which of the following are known as the types of research data? 1 (a) Organised data and unorganised data (b) Qualitative data and quantitative data (c) Processed data and unprocessed data (d) None of these Which of the following statements is true about the census? 1 (a) The census involves a process of choosing a few units out of the entire population for collecting data (b) The census involves a process of organising and publishing the data (c) The census involves a process of collecting data from each and every unit (d) None of these Which of the following is NOT a type of plot available in Seaborn? 1 (a) Line plot (b) Scatter plot (c) Bar plot (d) Tree plot Which function is used to draw multiple figures in one plot? 1 (a) subplot() (b) subplots() (c) pyplots() (d) subpyplot() What will be the output of the following code? 1 import pandas as pd pd.Series([1,2], index= ['a','b','c']) (a) Syntax Error (b) Index Error (c) Value Error (d) None of these

[2]

vi.		A Python pandas dataframe object can be created using:				
		(a) Python dictionary	(b) Python list			
		(c) Pandas Series	(d) All of these			
	vii.	A statement made about a population for testing purpose is called?				
		(a) Statistic	(b) Hypothesis			
		(c) Level of Significance	(d) Test-Statistic			
	viii.	Which of the following mentioned standard Probability density				
		functions is applicable to discrete Random Variables?				
		(a) Gaussian Distribution	(b) Poisson Distribution			
		(c) Rayleigh Distribution	(d) Exponential Distribution			
	ix.	Identify the kind of learning	g algorithm for "facial identities for	1		
		facial expressions".				
		(a) Prediction	(b) Recognition patterns			
		(c) Recognizing anomalies	(d) Generating patterns			
	х.	What is the meaning of cluster sampling?				
		(a) It is a process where the multiple groups	he sampling universe is divided into			
		(b) It is a process where the sconscious selection	samples for a study is obtained through			
			e samples for a study are selected at			
		regular intervals				
		C	which the sample for a study is divided			
Q.2	i.	Explain the role of data in th	e decision-making process.	2		
	ii.	Write a short note on the data cleaning process.				
	iii.		concepts with reference to analytics?	3 5		
		Explain any three with suital	•			
OR	iv.	= -	n? Explain the usage of the same in the	5		
		decision-making process.				
Q.3	i.	Write a short note on the das	shboard.	2		
	ii.	What do you understand b	y exploratory data analysis (EDA)?	8		
		Explain with suitable examp	les.			
OR	iii.	Explain any one visualizati suitable code examples.	on package available in Python with	8		

[3]

Q.4	i.	What are the basic requirements to run any Python code?		
	ii.	Explain the usage of pandas library with Python code.	7	
OR	iii.	Write a Python code to demonstrate the usage of for loop.	7	
Q.5	i.	What do you understand by probability and probability distributions? Explain with suitable examples.	4	
	ii.	What do you understand by regression? Explain with the suitable code example.	6	
OR	iii.	What do you understand by Machine Learning? Explain any one machine learning method with suitable code examples.	6	
Q.6		Attempt any two:		
	i.	Explain the concept of supervised learning, with suitable example.	5	
	ii.	Explain the concept of unsupervised learning, with suitable examples.	5	
	iii.	Explain the concept of clustering. Explain the method / algorithm for the same.	5	

Medi-Caps University Indore End Sem Exam 2023

Introduction to Business Analytics & Data Science
MS5C029 Scheme

Q.2 (i) Role of data 2 marks

(ii) Explanation 3 marks

(iii) Explanation 2 marles, example 3 marks

(iv) Explanation 2 marks, usage 3 marks

Q-3 (i) Explanation 2 marks

(ii) Explanation & marks, example 2 marks

(iii) visualitation package 6 marks code example 2 marks

- Q.4 (i) each sequiocement 1 mark (total - 3 marly (ii) each weage 2 morks explanation I mark (iii) (ode 7 marks
- Q.5 (i) explanation 3 marks Example 1 mark
 - (ii) Explanation and diagram 5 marks code 1 mark
 - (iii) Exaplanetien 3 marks each type 1.5 marks (total 6 mar,
 - Q-6 11, exaplanation 4 marles, example I mark
 - (ii) Explaneation 4 maries, example 1 mark
 - (l'ii) (lustering explanation 3 marles method 2 marks