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Enrollment No.....



Faculty of Management Studies
End Sem Examination May-2024

MS5OE21 Spreadsheet Modelling

Programme: MBA

Branch/Specialisation: Management /
Business Analytics

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. An easier way to set up complicated calculations. 1
(a) Decimals (b) Fractions (c) Booleans (d) Functions
 - ii. In a spreadsheet, letters are used to represent _____. 1
(a) Cells (b) Rows (c) Columns (d) Blocks
 - iii. Two types of research data include- 1
(a) Recognised and unrecognised data
(b) Structured and unstructured data
(c) Qualitative and quantitative data
(d) Organised and processed data
 - iv. What is it called when the data is sourced from the place of origin? 1
(a) Secondary (b) Primary
(c) Secondary and primary (d) All of these
 - v. In dimension visualization, which property of the pixel represents the value of the dimension? 1
(a) Colour (b) Size (c) Density (d) Opacity
 - vi. Which of the following is not a limitation of parallel coordinate technique? 1
(a) Visual clutter
(b) Overlap
(c) Cannot visualize many data records
(d) Cannot visualize high dimension data

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- vii. _____ in look operation in excel, looks for value in the leftmost column of the data. **1**
 (a) Filter (b) VLOOKUP
 (c) HLOOKUP (d) Data
- viii. A numeric data analysis tool that allows us to create a computerized ledger. **1**
 (a) Word processing package (b) Spreadsheet package
 (c) Graphics package (d) Mathematical Package
- ix. Data that summarize all observations in a category are called _____ data. **1**
 (a) Frequency (b) Summarized
 (c) Raw (d) None of these
- x. Which of the following is an example of raw data? **1**
 (a) Original swath files generated from a sonar system
 (b) Initial time-series file of temperature values
 (c) A real-time GPS-encoded navigation file
 (d) All of these
- Q.2 i. Write down any two benefits of modelling. **2**
 ii. Explain categories of decision models. Write steps involved in decision modelling. **3**
 iii. Explain the uses of spreadsheet functions. Also explain text functions and arithmetic functions. **5**
- OR iv. What are the control statements used in spreadsheet? Explain with example. **5**
- Q.3 i. Give the introduction of data management. **2**
 ii. Differentiate quantitative data and qualitative data. Explain sorting and filtering of data. **8**
- OR iii. Explain any two: **8**
 (a) Summarize data
 (b) Data cleaning and string functions
 (c) Date functions
- Q.4 i. Write the names of different types of data visualization tools. Explain their use in different field. **3**
 ii. How to create data visualizations in excel? Explain all the steps. **7**

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- OR iii. Explain different data visualization charts. Also explain grouping of data. **7**
- Q.5 i. What is VBA? Explain in brief. **4**
 ii. Why we use lookup functions? Explain VLOOKUP and HLOOKUP with example. **6**
- OR iii. What is automation? Explain automations using formulae, pivots, and macros. **6**
- Q.6 Attempt any two:
 i. Explain permutations and combinations with example. **5**
 ii. Write short note on Building Time-Series models & and their modification. **5**
 iii. Explain data analytics. Also explain building simple predictive and regression models, in brief. **5**

Marking Scheme

Spreadsheet Modelling for Business Analytics (T) - MS5OE21

Q.1	i)	An easier way to set up complicated calculations.	1
		d) Functions	
	ii)	In a spreadsheet, letters are used to represent _____	1
		c) Columns	
	iii)	Two types of research data include-	1
		c) Qualitative and quantitative data	
	iv)	What is it called when the data is sourced from the place of origin?	1
		b) Primary	
	v)	In dimension visualization, which property of the pixel represents the value of the dimension?	1
		a) Colour	
	vi)	Which of the following is not a limitation of parallel coordinate technique?	1
		d) Cannot visualize high dimension data	
	vii)	_____ in look operation in excel, looks for value in the leftmost column of the data	1
		c) HLOOKUP	
	viii)	A numeric data analysis tool that allows us to create a computerized ledger.	1
		b) Spreadsheet package	
	ix)	Data that summarize all observations in a category are called _____ data.	1
		b) summarized	
	x)	Which of the following is an example of raw data?	1
		d) all of the mentioned	
Q.2	i.	Write down any two Benefits of Modelling.	2
		Explanation	2 Marks
	ii.	Explain Categories of Decision Models also write Steps involved in Decision Modelling.	3
		Explanation	1 Marks
		Steps	2 Marks
	iii.	Explain the uses of Spreadsheet functions, also explain text functions and Arithmetic Functions.	5
		Explanation of Spreadsheet functions	2 Marks
		text functions and Arithmetic Functions	3 Marks
	OR	iv. What are the Control Statements used in spreadsheet explain with example.	5
		Explanation	3 Marks
		Example	2 Marks

Q.3	i.	Give the introduction of Data Management.	2
		Explanation	2 Marks
	ii.	Differentiate Quantitative Data and Qualitative Data, also explain sorting and filtering of data.	8
		Quantitative Data and Qualitative	4 Marks
		sorting and filtering of data	4 Marks
	OR	iii. Explain any two	8
		a) Summarize data	
		b) Data cleaning and string functions,	
		c) Date Functions	
		Each 4 Marks	
Q.4	i.	Write the names of different types of data visualization tools. And explain their use in different field.	3
		Explanation	2 Marks
		Uses	1 Mark
	ii.	How to Create Data Visualizations in Excel, explain all the steps.	7
		Explanation	7 Marks
	OR	iii. Explain different data visualization charts also explain grouping of data.	7
		visualization charts	4 Marks
		grouping of data	3 Marks
	Q.5	i. What is VBA, explain in brief.	4
		Explanation	4 Marks
	ii.	Why we use Lookup Functions, explain VLOOKUP and HLOOKUP with example.	6
		Explanation	2 Marks
		VLOOKUP and HLOOKUP	Each 2 marks
	OR	iii. What is Automation, explain Automations using formulae, Pivots, and Macros.	6
		Each	2 Marks
	Q.6	Attempt any two:	
	i.	Explain permutations and combinations with example	5
		Each Explanation	2.5 Marks
	ii.	Write short note on Building Time-Series models & and their modification.	5
		Explanation	3 Marks
		Modification	2 Marks

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- iii. Explain data Analytics, also explain building simple predictive and regression models, in brief. **5**
- data Analytics 3 Marks
- simple predictive and regression models Each 1 Mark
