QPC: RN20BTECH665

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Reg. No





GIET UNIVERSITY, GUNUPUR – 765022

B. Tech (Seventh Semester - Regular) Examinations, November - 2023

BPECS7032 / BPECT7022 - Big Data Visualization

(CSE,CST)

Time: 3 hrs					Maxir	Maximum: 70 Marks				
Answer ALL Questions										
The figures in the right hand margin indicate marks. PART – A: (Multiple Choice Questions)							(1 x 10 = 10 Marks)			
<u>Q.1</u>	1. Answer A	ALL questions				[CO#]	[PO#]			
a.	Which is u	used to query and edit graphical setting	gs?			CO1	PO1			
	(i)	cum()	(ii)	plot()						
	(iii)	par()	(iv)	anova()						
b.	` '	the following describes Data Visualiza	` '	V		CO2	PO1			
	(i)	Eyesight oriented	(ii)	Easy to understand						
	(iii)	Quick to learn	(iv)	All of these						
c.	Common	use cases for data visualization include				CO3	PO1			
	(i)	Politics	(ii)	Sales and marketing						
	(iii)	Healthcare	(iv)	All of the above						
d.	` ′	the following does D3.js NOT use?	` /			CO2	PO1			
	(i)	Java script	(ii)	CCS						
	(iii)	SVG	(iv)	HTML						
e.	` ,	s generally characterised by three Vs t	` '	or , and		CO1	PO1			
	(i)	Volume; Viscosity; Variety	(ii)	Variety; Velocity; Vivid						
	(ii)	Viscosity; Volume; Velocity	(iv)	Volume; Variety; Velocity						
f.	` ,	on of data of the bank is a type of.		, , , , , , , , , , , , , , , , , , ,		CO1	PO1			
	(i)	Unstructured data	(ii)	Structured Data						
	(iii)	Both a and b	(iv)	None of theses						
g.	` ,	cannot optimize the performance of a	` '			CO3	PO2			
8.	(i)	By increasing number of filters	(ii)	Use context filter						
	(iii)	Use Boolean Calculations	(iv)	Remove unneeded dimens	ion					
h.	Which of the following is not a part of the data science process.						PO2			
11.	(i)	Communication building	(ii)	Discovery		CO3	102			
	(iii)	Operationalize	(iv)	Model Planning						
i.							PO2			
	(i)	read.table()	(ii)	read.csv()		CO4	102			
	(iii)	read.excel()	(iv)	None of these						
j.		alization tools provide an accessible w			data	CO4	PO1			
J.		•	•		i uaia.					
	(i)	Trends	(ii)	Outliers						
	(iii)	Patterns	(iv)	All of theses						
PART – B: (Short Answer Questions) (2 x 10 = 20 Marks)										
0.2	2. Answer A	LL questions				[CO#]	[PO#]			
a. Name any four tools used in Big Data Visualization.						CO1	PO1			
b. Define Big data with an example.						CO1	PO1			
c. Explain about d3.js Scales.						CO3	PO2			
d. Differentiate between exploration and explanation.						CO2	PO2			

e. f. g. h. i. j.		CO2 CO2 CO4 CO3 CO2 CO4	PO2 PO1 PO2 PO2 PO1 PO1	
PAF	2T – C: (Long Answer Questions)	$(10 \times 4 = 40 \text{ Marks})$		
Ans	wer ALL questions	Marks	[CO#]	[PO#]
3. a	Differentiate among Informative versus Persuasive versus Visual Art.	5	CO1	PO3
b	Describe the common Approaches to big data visualization.	5	CO1	PO2
	(OR)			
c	Explain in detail about Nature of Data and its applications.	5	CO1	PO1
d	Differentiate between Infographics versus Data Visualization.	5	CO1	PO2
4. a	. Give an example on Defaults versus Innovative Formats.	5	CO2	PO2
b	State some ways to improve the performance of Tableau.	5	CO3	PO2
	(OR)			
c	. Explain about the visualization techniques in big data.	5	CO2	PO1
d	Do we have any way to handle null values in Tableau?	5	CO3	PO2
5. a		5	CO2	PO2
b		5	CO3	PO1
	(OR)			200
С		5	CO3	PO2
d		_		
	x < c(21, 62, 10,53)	5	CO2	PO4
	labels <- c("London","New York","Singapore","Mumbai")			
6. a	Define Data visualization showing the stacked view with an example.	5	CO4	PO3
b	Explain designing a Bar Chart using D3.	5	CO4	PO4
	(OR)			
c	. Briefly explain Visualization using HTML document.	5	CO4	PO2
d	Explain DataManager Command Line Options.	5	CO3	PO2

--- End of Paper ---