

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, May 2019

Course: Descriptive Analytics for Health Care

Program: B.Tech (HI)

Course Code: CSEG 375

Instructions: (All questions are compulsory)

Semester: 6th

Time 03 hrs.

Max. Marks: 100

SECTION A

		Marks	CO
Q 1	Explain Predictive and Prescriptive analytics.	4	CO1
Q 2	State four examples descriptive analytics contribution to the HI.	4	CO3
Q 3	Discuss Data Mining techniques in HI.	4	CO2
Q 4	Compare Centralized and Decentralized architecture.	4	CO2
Q 5	Explain the kind of return on investment result from a successful business intelligence strategy.	4	CO3

SECTION B

Q 6	Explain Descriptive Analytics in health care by quoting three examples.	10	CO1
Q 7	Differentiate between business intelligence strategies and data analytics strategies?	10	CO5
Q 8	Elaborate upon the different types of data available in HI? Also explain its sources and how it can be managed?	10	CO2
Q 9	Discuss the purpose and functioning of the following using suitable example: a) SAAS b) Cloud Computing c) Dashboards and Score Cards	10	CO4
	OR		
	Design a BI system for regular checkup of patients in Hospital by describing all the steps from Data Collection to Decision Making.	10	CO4

SECTION-C

Q 10	Elaborate the AI-based business intelligence applications currently in use in healthcare?	20	CO5
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Q 11	Justify how OLAP is useful in Public health care? Quote a case study in support of it.	20	CO4
	OR		
	Design a BI application which will provide a health care data of the employees of ABC organization with features and performance that meet their objectives. Use any Data mining technique.		CO4

Name:	 UPES UNIVERSITY WITH A PURPOSE
Enrolment No:	

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Program: B.Tech (HI)	Time 03 hrs.
Course Code: CSEG 375	Max. Marks: 100
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SECTION A

		Marks	CO
Q 1	Explain Descriptive and Prescriptive analytics.	4	CO1
Q 2	Categorize the different Functional areas of BI tool and their appropriate applications?	4	CO3
Q 3	Discuss Data Warehouse in HI.	4	CO2
Q 4	Compare OLAP and OLTP.	4	CO1
Q 5	Discuss the kind of return on investment can result from a successful Health Care department of a hospital using business intelligence strategy.	4	CO1

SECTION B

Q 6	Explain is Predictive Analytics in health care. Justify your answer by quoting three examples.	10	CO4
Q 7	State five examples of prescriptive analytics and its contribution to HI.	10	CO5
Q 8	Elaborate upon the different types of data backup techniques available in HI. Explain its sources and how it can be managed?	10	CO2
Q 9	Discuss the following using suitable examples: a) Validation b) Prioritizing requirements c) Metadata models	10	CO3
OR			
	Design a BI system for the details of students in University by describing all the steps from Data Collection to Decision Making.	10	CO3

SECTION-C

Q 10	Explain the types of SAAS-based business intelligence applications are currently in use in healthcare.	20	CO4
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Q 11	Elaborate how different data mining techniques are useful in Public health care. Quote a case study in support of it.	20	CO5
	OR		
	Design a BI application which will provide a health care data of the students of UPES with features and performance that meet their objectives. Discuss a case study.		CO5