

GEETHANJALI INSTITUTE OF SCIENCE & TECHNOLOGY

(AN AUTONOMOUS INSTITUTION)

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(Accredited by NAAC with "A" Grade, NBA (EEE,ECE &ME) & ISO9001:2008CertifiedInstitution)

QUESTION BANK(DESCRIPTIVE)

Subject Name with Code: Introduction to Data Science Course & Branch: Year& Semester: B.Tech CSE(DS) II-I

Regulation: RG23

<u>UNIT - I</u>

S.No.	Question	[BT Level] [CO][Marks]		
	2 Marks Questions (Short)			
	What is project Charter?	L1, CO1,2M		
	What is Data Cleaning?	L1, CO1,2M		
3.	What is Data & Information in data science?	L1, CO1,2M		
4.	List out the Benefits &Uses in data science?	L1, CO1,2M		
5.	How does data science related to computer science?	L2, CO1,2M		
6.	What is data science &where it comes from?	L1, CO1,2M		
7.	Define Data Integration?	L1, CO1,2M		
8.	What is Data Transformation?	L1, CO1,2M		
9.	List Out the Facets of Data in Data Science?	L1, CO1,2M		
10.	What is Labelled &Unlabelled Dataset?	L1, CO1,2M		
Descr	ptive Questions (Long)			
11.	What is Data Science? How does data science related to other fields in real time?	L2, CO1,10M		
12.	Write a short note on Information vs Data in Data Science?	L2, CO1,10M		
13.	Explain Data Science Process Steps in Brief with an Example?	L2, CO1,10M		
14.	Write a short Note on a) Defining Goals &Creating Project Charter b) Retrieving Data	L2, CO1,10M		
15.	Differentiate between data science and computer science? and explain in detail?	L2, CO1,10M		
16.	Write a short note on Data Cleaning &Integration Explain Them with an Example?	L2, CO1,10M		
17.	Explain How Big Data Ecosystem is Used in Data Science with a Neat Sketch?	L2, CO1,10M		
18.	Write a short note on EDA& Model Building Explain Them with an Example?	L2, CO1,10M		
19.	Write a short note on Presenting Findings and Building Applications On Top of Them in Data Science Process?	L2, CO1,10M		

UNIT - II

S.No.	Question	[BT Level] [CO][Marks]
2 Mar	ks Questions (Short)	
1.	What is Machine Learning?	L1, CO2,2M
2.	List out the Applications of Machine learning in Data	L1, CO2,2M
4.	Science?	
3.	List out some of the challenges of unstructured data in Data	L1, CO2,2M
3.	Science?	
4.	What is Structured data in data science?	L1, CO2,2M
5.	Define Unstructured data in data science?	L1, CO2,2M
6.	Define Semi Structured data in Data science?	L1, CO2,2M

7.	Define validation & Prediction in ML?	L1, CO2,2M
8.	Define Semi supervised Learning in ML?	L1, CO2,2M
9.	What is Database?	L1, CO2,2M
Descr	ptive Questions (Long)	
10.	Briefly Explain Role of Machine learning in data Science??	L2, CO2,10M
11.	Write a short note on a) Semi-Supervised Learning b) Model	L2, CO2,10M
11.	Selection in ML?	
12.	Explain briefly about the some of the Python Library	L2, CO2,10M
12.	Functions like Numpy, Pandas, SK learn tools data science?	
13.	What is structured and unstructured data? Compare them? &	L2, CO2,10M
13.	Explain in detail?	
14.	Explain Briefly about the Different Types of Machine learning	L2, CO2,10M
14.	Techniques in detail?	
15.	Write short note on Validation & Prediction in Machine	L2, CO2,10M
15.	Learning?	
16.	Explain how handling large amount of data &Its techniques	L2, CO2,10M
10.	in Machine Learning?	
17.	Write short note on Programming Tips for large Amount of	L2, CO2,10M
1/.	Data in Machine Learning?	
18.	Explain Briefly about the Problems & General Techniques for	L2, CO2,10M
10.	Handling Large Data in ML?	
10	Explain Briefly About the Modelling process for Process Engineering	L2, CO2,10M
19.	in Machine Learning?	

<u>UNIT - III</u>

S.No.	Question	[BT Level] [CO][Marks]
2 Mar	ks Questions (Short)	
1.	What is big data Analysis?	L1, CO3,2M
2.	What is meant by Hierarchial Database?	L1, CO3,2M
3.	List out Different types of Databases?	L1, CO3,2M
4.	Define Nosql in data Science?	L1, CO3,2M
5.	List out Different types of Nosql databases?	L1, CO3,2M
Descri	ptive Questions (Long)	
7.	Explain Briefly About the NoSQL Movement for handling big data in Data science?	L2, CO3,10M
8.	Write a short note on CAP Theorem with a neat Sketch?	L2, CO3,10M
9.	Explain Briefly About the ACID Principle Relational databases in DS with a neat sketch?	L2, CO3,10M
10.	Illustrate the Risk Asssessment for Loan Sanctioning in Real time with an Example?	L3, CO3,10M
11.	Write a short note on different types of NoSQL Databases with a neat sketch?	L2, CO3,10M
12.	Explain Briefly About the Base principle of NoSQL databases with a Neat sketch?	L2, CO3,10M
13.	Illustrate how disease diagnosis and profiling is occurred in health care in Data science with an Example?	L3, CO3,10M

14	1	Write a short note on Distributing Data Storage devices in Data Science?	L2, CO3,10M
	15.	Explain Briefly About the Hadoop Framework processing with a neat Sketch?	L2, CO3,10M

<u>UNIT - IV</u>

S.No.	Question	[BT Level] [CO][Marks]
2 Mai	rks Questions (Short)	
1.	Define Neo4J Tool?	L1, CO4,2M
	What is Encryption?	L1, CO4,2M
3.	What is Meant by Graph Databases?	L2, CO4,2M
	What is Data warehousing?	L1, CO4,2M
5.	What is Decryption?	L1, CO4,2M
6.	What is Data Mining?	L1, CO4,2M
Descr	iptive Questions (Long)	
7.	Explain Briefly About the Tools & Applications of Data Science with a neat sketch?	L2, CO4,10M
8.	Write a short note on Graph query Language &Explain them with an Example?	L2, CO4,10M
9.	Explain Briefly About the Natural Language tool kit processing with a neat sketch?	L2, CO4,10M
10.	Write a short note on Applications of Graph Databases in Data science?	L2, CO4,10M
11.	Explain Briefly About the python library SQlite function in Data science?	L2, CO4,10M
12.	Write a short note on Text Mining & Analytics in Datascience?	L2, CO4,10M
13.	Explain Briefly About the Neo4J Dealing with Graph Databases in Real time?	L2, CO4,10M
	Write a short note on Encryption &Decryption ?with a neat sketch?	L2, CO4,10M
14.		

<u>UNIT - V</u>

S.No.	Question	[BT Level] [CO][Marks]		
2 Mar	2 Marks Questions (Short)			
1.	What is mean by prototyping?	L1, CO5,2M		
2.	What is Data Visualization?	L1, CO5,2M		
3.	Define Crossfilter in Data Science?	L1, CO5,2M		
4.	What is mean by Mapreduce?	L1, CO5,2M		
5.	What is Scalability?	L1, CO5,2M		
Descr	iptive Questions (Long)			
7.	Explain Briefly About the Java script Map reduce library function in data science?	L2, CO5,10M		
8.	Write a short note on Data Visualization options in data Science with a neat sketch	L2, CO6,10M		
9.	Write a short note on Crossfilter & Explain them with an Example?	L2, CO6,10M		
10.	Illustrate How Data Science process is applicable for real time world problem solving scenarios in detail?	L3, CO6,10M		
11.	Explain Briefly About the Interactive Dashboard tools with dc.js ?with a neat sketch?	L2, CO6,10M		
12.	Write a short note on dashboard development tools with a neat sketch?	L2, CO6,10M		
13.	What is Data Visualization? Explain how prototyping is used in Data science?	L2, CO6,10M		
14.	Write a short note on dc.js Dashboard tool in Data Science with a neat sketch?	L2, CO6,10M		

Signature of the Staff: Mr.V.Chaithanya

Signature of Department Academic Committee Member 1:

Signature of Department Academic Committee Member 2:

 ${\bf Signature\ of\ Department\ Academic\ Committee\ Member\ 3:}$