

Qno	Question	Marks	Section
1	Write short notes on the following a) Characteristics of the software. b) Software applications. c) Software myths.	12	Section-I
2	Write short notes on the following a) Generic process framework b) Layered technology	6 6	Section-I
3	Write short notes on the following a) Process framework activities b) Umbrella Activities	6 6	Section-I
4	Elaborate the CMMI standard for software process	12	Section-I
5	Explain the various software process models in detail.	12	Section-I
6	Explain the following: (i) waterfall model (ii) Spiral model (iii) RAD model (iv) Prototyping model.	12	Section-I
7	List the principles of agile software development process and state the Problems with agile methods?.	12	Section-I
8	Discuss any four software process models with suitable application.		Section-I
9	<i>Explain why incremental development is the most effective approach for developing business software systems. Why is this model less appropriate for real time systems engineering?</i>	12	Section-I
10	<i>a. List the characteristics of software? b. Explain briefly about evolutionary model?</i>	6 6	Section-I
11	Summarize the following with examples a) Functional requirements b) Non functional requirements	6 6	Section-II
12	Summarize, how to write software requirements specification document	12	Section-II
13	What is SRS? Explain in detail about various component of an SRS	12	Section-II
14	Sketch the following system models for MICROWAVE OVEN a) CONTEXT MODEL b) BEHAVIOUR MODEL	12	Section-II
15	Sketch the following system models for ATM machine a) OBJECT MODEL b) DATA MODEL	12	Section-II
16	Draw the System models for library management system	12	Section-II
17	What is the purpose of data flow diagrams? What are the notations used for the same. Explain by constructing a context flow diagram level -0 DFD and level-1 DFD for a library management system?	12	Section-II
18	Elaborate the different ways of representing the system requirements and interface requirements.	12	Section-II
19	<i>a. What is the goal of requirements analysis phase? b. Give reasons why the requirements analysis phase is a difficult one?</i>	12	Section-II
20	a. What is interface specification? b. Explain user requirements & system requirements?	4 8	Section-II
21	Discuss the design model elements in detail	12	Section-III
22	Describe in detail about architectural styles?	12	Section-III

23	Write short notes on following a)Data design b)Architectural patterns c)Architecture design.	4,4,4	Section-III
24	Elaborate the conceptual model of UML and design	12	Section-III
25	Design structural model using UML diagrams for ATM system.?	12	Section-III
26	Explain about the Black box testing in detail	12	Section-III
27	Explain about the white box testing in detail	12	Section-III
28	Discuss the Testing Strategies for Conventional Software	12	Section-III
29	<i>Summarize the Design concepts of software engineering?</i>	12	Section-III
30	<i>Summarize the concept of art of debugging?</i>	12	Section-III
31	Define Risk. Explain the needs and activities or risk management?	12	Section-IV
32	Define software risk and differentiate ,Reactive vs proactive risk strategies	12	Section-IV
33	Explain risk identification ,Risk projection, risk refinement	12	Section-IV
34	Explain the RMMM, RMMM plan in detail	12	Section-IV
35	Explain in detail ISO 9000 quality standards	12	Section-IV
36	Write short notes a) Quality concepts b) Quality assurance and its activities.	6 6	Section-IV
37	Elaborate ,how the form technical reviews and software reviews are conducted are for quality assurance?	12	Section-IV
38	Write short notes on a)Statistical software quality assurance b)Software reliability	6 6	Section-IV
39	<i>List and explain the various software quality factors?</i>	12	Section-IV
40	<i>a. Define software quality and list quality concepts?</i> <i>b. give the overview of software reliability concept?</i>	6 6	Section-IV
41	Explain Software project management, challenges in SPM	12	Section-V
42	Elaborate the .Software project management activities in detail	12	Section-V
43	Write short notes on a)Stake holders b)Objectives and goals c)Project scope	4 4 4	Section-V
44	Explain how breakdown structure is used in software engineering for managing the projects.	12	Section-V
45	Discuss how software project scheduling helps in timely release of a product	12	Section-V
46	Explain the stepwise project planning in detail with a neat diagram	12	Section-V
47	Write Short notes on a)Project and product. b)Project deliverable	6 6	Section-V
48	Explain effort estimation and Infrastructure in software project management	12	Section-V
49	<i>a. What are the goals of software project management?</i> <i>b. Discuss the need of software project management?</i>	6 6	Section-V
50	<i>Explain few problems associated with software projects ?</i>	12	Section-V

1	Define Cloud Computing? Explain the differences between Traditional Computing and Cloud Computing?	12	Section-I
2	a) Explain about 4 roots of Cloud Computing? b) Explain about any 2 Internet technologies, how they are useful in cloud computing?	6 6	Section-I
3	Explain and define the characteristics of different types of cloud services with neat diagram?	12	Section-I
4	Briefly Explain about Cloud service models with example.	12	Section-I
5	a) Analyse Cloud Computing Challenges? b) What are the features of Cloud Computing?	6 6	Section-I
6	a) Explain about Cloud infrastructure management. b) Briefly Explain about the cloud deployment models	6 6	Section-I
7	a) Explain about Infrastructure of a service provider b) Explain about Platform as a service provider	6 6	Section-I
8	Illustrate the different types cloud with an Example?	12	Section-I
9	a) What are the Cloud Challenges and risks of Cloud Computing, Explain in detail. b) Illustrate the difference between Traditional Computing vs Cloud Computing?	6 6	Section-I
10	Explain about seven step model for cloud migration in detail with neat diagram?	12	Section-I
11	What is AWS? Explain about AWS Cloud Adaptation Framework in detail?	12	Section-II
12	a) Explain importance of AWS? How to interact with AWS. b) Explain Service categories of AWS	6 6	Section-II
13	Explain in detail about how the Global Infrastructure of AWS is maintained?	12	Section-II
14	a) Explain the service categories of AWS in detail? b) Explain about AWS Cloud Adaptation Framework in detail?	6 6	Section-II
15	Briefly Explain about Importance of Services and Service categories.	12	Section-II
16	Explain about AWS Architect Framework Design Principles?	12	Section-II
17	a) Explain about Operational Excellence pillar with design principles in AWS b) Explain about Performance Efficiency pillar with design principles in AWS	6 6	Section-II
18	Explain about Reliability and High availability.	12	Section-II
19	Briefly explain about any 4 pillars of AWS with design principles.	12	Section-II
20	a) Explain About Security pillar in AWS. b) Explain about High Availability	6 6	Section-II
21	Explain about AWS Security- shared responsibility model with	12	Section-III

	<i>a neat diagram?</i>		
22	<i>What is AWS IAM? What are the components essential components in IAM and what is the purpose of IAM in AWS</i>	12	<i>Section-III</i>
23	<i>a) Explain the Importance of AWS IAM. b) How to provide the security to multiple accounts and data.</i>	6 6	<i>Section-III</i>
24	<i>Briefly Explain about Elastic Load Balancing and How elastic load balancing works.</i>	12	<i>Section-III</i>
25	<i>a) Explain about Elastic Load Balancing. b) Importance of Cloud-watch in AWS</i>	6 6	<i>Section-III</i>
26	<i>a) What is VPC? How VPC is implemented in Cloud? b) Explain about VPC Security?</i>	6 6	<i>Section-III</i>
27	<i>a) What is VPC? Explain the architecture of VPC with a neat diagram? b) Briefly Explain about ROUTE53 in AWS</i>	6 6	<i>Section-III</i>
28	<i>a) Briefly Explain about VPC networking Internet gateway. b) Briefly Explain about NAT gateway with diagram.</i>	6 6	<i>Section-III</i>
29	<i>Explain about VPC peering and VPC Direct connection with a diagram</i>	12	<i>Section-III</i>
30	<i>a) What is Cloud front explain in detail about it? b) explain about Security groups and Network ACLs</i>	6 6	<i>Section-III</i>
31	<i>Briefly Explain about AWS compute services.</i>	12	<i>Section-IV</i>
32	<i>a) Explain about Amazon EC2 instance. b) Briefly explain about Instance types.</i>	6 6	<i>Section-IV</i>
33	<i>What is AMI? What is the purpose of AMI while creating Instance?</i>	12	<i>Section-IV</i>
34	<i>a) Illustrate about EC2 vs Virtual Machine? b) Explain about volumes and Snapshots in AWS.</i>	6 6	<i>Section-IV</i>
35	<i>Demonstrate about ec2 Cost Optimization?</i>	12	<i>Section-IV</i>
36	<i>a) Explain the importance of Amazon EC2. b) How to launch a Amazon Instance in AWS.</i>	6 6	<i>Section-IV</i>
37	<i>How to create a Lambda function for displaying Hello World</i>	12	<i>Section-IV</i>
38	<i>Briefly Explain about Serverless computing platform with key characteristics.</i>	12	
39	<i>How does Elastic Beanstalk works in AWS?</i>	12	<i>Section-IV</i>
40	<i>a) Explain about AWS Elastic Beanstalk deployment. b) Explain the benefits of elastic beanstalk.</i>	6 6	<i>Section-IV</i>
41	<i>Briefly Explain about Amazon Block Store</i>	12	<i>Section-V</i>
42	<i>a) What are the features of EBS? b) Explain about the types of EBS volumes.</i>	6 6	<i>Section-V</i>
43	<i>Briefly Explain about Amazon Simple Storage Service</i>	12	<i>Section-V</i>
44	<i>Explain about Amazon S3 storage classes.</i>	12	<i>Section-V</i>
45	<i>a) Explain the importance of Amazon EBS. b) Define S3 Life Cycle policies</i>	6 6	<i>Section-V</i>
46	<i>Explain about Amazon RDS instance and How to Create an RDS Instance in AWS?</i>	12	<i>Section-V</i>

47	a) Explain about AWS RDS Database Engine b) Differentiate the Relational and non-relational data bases	6 6	Section-V
48	What is Amazon Dynamo DB and its core components?	12	Section-V
49	How does Amazon Redshift simplify data warehouse and analytics management?	12	Section-V
50	a) What is the difference between SQL DB and NOSQL DB in AWS? b) What is the importance of RDS in Amazon	6 6	Section-V

Qno	Question	Marks	Section																
1	Explain the importance of the data and various fields involved in data science.	12	Section-I																
2	Define data ,its sources and discuss the types of data for Data science with examples	12	Section-I																
3	a) Differentiate between Supervised Learning and Unsupervised Learning b) List and explain some applications of Machine Learning.	6 6	Section-I																
4	Explain the relationship between Artificial Intelligence, Machine learning and Deep Learning in detail with examples	12	Section-I																
5	What is Machine learning? Explain the typical methodology for machine learning approach with examples.	12	Section-I																
6	What is Deep Learning give some Examples of Deep Learning?	6 6	Section-I																
7	What is Artificial Intelligence give some Examples of AI?	12	Section-I																
8	Differentiate between ML and DL with examples?	12	Section-I																
9	What are the supervised and unsupervised Learning Algorithms in Machine Learning?	12	Section-I																
10	What is Machine Learning? Give some applications of Machine Learning?	6	Section-I																
11	What is the process of EDA? Explain with the help of use case?	6 6	Section-II																
12	What is Univariate, Bivariate and Multivariate analysis in visualisation?	12	Section-II																
13	What is Data visualization and explain about different types of visual analysis tools?	12	Section-II																
14	Explain the process of EDA and steps involved in it.	12	Section-II																
15	a) Explain how to obtain the statistical information about the dataset b) Explain how to access and modify the rows and columns in the dataset	6 6	Section-II																
16	Apply the inter quartile range technique on a given data below and identify the outliers. 5,7,10,15,19,21,21,22,22,23,23,23,23,23,24,24,24,24,25	12	Section-II																
17	Explain about the different types of plots and charts for visualisation in the Exploratory Data Analysis?	12	Section-II																
18	Discuss the various methods to detect the outliers in ‘Weight’ variable for a given data. <table><tr><th>Student_Name</th><th>Weight(Kg)</th></tr><tr><td>Raj</td><td>56</td></tr><tr><td>Sinal</td><td>52</td></tr><tr><td>Akash</td><td>48</td></tr><tr><td>Lavanya</td><td>50</td></tr><tr><td>Hansica</td><td>45</td></tr><tr><td>Rohit</td><td>50</td></tr><tr><td>Sai krishna</td><td>57</td></tr></table>	Student_Name	Weight(Kg)	Raj	56	Sinal	52	Akash	48	Lavanya	50	Hansica	45	Rohit	50	Sai krishna	57	12	Section-II
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		Akshaya	488																											
		Mananya	52																											
19	Write a program to perform the exploratory data analysis.				12	Section-II																								
20	What is an Outlier? Explain causes of outliers and different techniques to detect the outliers?				6 6	Section-II																								
21	Discuss about different methods of converting categorical data into numerical data with example.				6	Section-III																								
22	a) Calculate the various performance metrics for the given below confusion matrix $\begin{bmatrix} 60 & 8 \\ 22 & 10 \end{bmatrix}$ b) Define a residual and explain the steps involved in calculating the R-squared value with suitable example				6 6	Section-III																								
23	Define one hot encoding technique and apply it on the given data below. <table><tr><th>EmpID</th><th>Gender</th><th>Car color</th><th>Class</th></tr><tr><td>45</td><td>Male</td><td>Red</td><td>Leading</td></tr><tr><td>78</td><td>Male</td><td>Red</td><td>Building</td></tr><tr><td>56</td><td>Female</td><td>Blue</td><td>Strong</td></tr><tr><td>12</td><td>Male</td><td>White</td><td>Building</td></tr><tr><td>7</td><td>Female</td><td>Blue</td><td>Strong</td></tr></table>				EmpID	Gender	Car color	Class	45	Male	Red	Leading	78	Male	Red	Building	56	Female	Blue	Strong	12	Male	White	Building	7	Female	Blue	Strong	12	Section-III
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24	Discuss about the working procedure of logistic regression for binary and multi class classification				12	Section-III																								
25	What is the working principle for simple Linear Regression? Explain with example.				12	Section-III																								
26	a) What is Multiple Linear Regression explain with example b) Explain how to train and test the model to improve accuracy?				6 6	Section-III																								
27	What are the two types of Regression Algorithms? Explain with example?				12	Section-III																								
28	Differentiate between Regression and Classification Algorithms?				12	Section-III																								
29	What is confusion matrix? Explain how the performance of model is measured with the confusion matrix with example.				12	Section-III																								
30	Explain about Multiclass classification using Logistic Regression.				12	Section-III																								
31	a) Explain the similarity and differences between bagging and boosting. b) Define the following i. Entropy ii. Gini-index.				6 6	Section-IV																								
32	What is Support vector machine algorithm and what is the working principle of SVM.				12	Section-IV																								
33	How does the Naïve Bayes classifier work? Explain in detail.				12	Section-IV																								

34	Explain Decision tree algorithm for classifying the data tuples and with suitable example.	12	Section-IV																								
35	What are the two different types of Naïve Bayes Algorithm with the help of example	12	Section-IV																								
36	Explain about the working of Random Forest algorithm and Explain how it is better than Decision Tree?	12	Section-IV																								
37	Elaborate the process of building a Machine Learning model?	12	Section-IV																								
38	Discuss the Support vector machine classifier how it works to classify the data points in detail.	12	Section-IV																								
39	Explain about Bagging and Boosting in Random Forest Algorithm?	12	Section-IV																								
40	Explain k-means clustering algorithm with an example?	12	Section-IV																								
41	Discuss the effect of normalization in machine to learn the data and normalize the following data using min-max normalization method. <table border="1"><tr><td>Data</td><td>1000</td><td>2000</td><td>3000</td><td>9000</td><td>15000</td></tr></table>	Data	1000	2000	3000	9000	15000	12	Section-V																		
Data	1000	2000	3000	9000	15000																						
42	Define clustering? And discuss the process of estimating the optimal number of clusters	12	Section-V																								
43	What is K-Means clustering Algorithm and what is Min Max scaler used for in K means clustering	12	Section-V																								
44	Write a program to illustrate the working of k-means clustering algorithm	12	Section-V																								
45	How is Elbow method used to find out the optimal number of clusters in k-means clustering Algorithm	12	Section-V																								
46	What is the Principal Component Analysis ? how PCA is used to improve the performance of the model	12	Section-V																								
47	What are the Eigen Vectors or the Principal Components in PCA	12	Section-V																								
48	a)What is under fitting and over fitting ? b)what is Regularisation?	12	Section-V																								
49	a) Define covariance matrix? And explain the types of relationships with suitable plot. b) List the advantages of principle component analysis.	12	Section-V																								
50	State K-means algorithm. Apply k-means algorithm with two iterations to form two clusters by taking the initial cluster centers as subjects 1 and 4. <table border="1"><tr><td>Subject</td><td>A</td><td>B</td></tr><tr><td>1</td><td>1.0</td><td>1.0</td></tr><tr><td>2</td><td>1.5</td><td>2.0</td></tr><tr><td>3</td><td>3.0</td><td>4.0</td></tr><tr><td>4</td><td>5.0</td><td>7.0</td></tr><tr><td>5</td><td>3.5</td><td>5.0</td></tr><tr><td>6</td><td>4.5</td><td>5.0</td></tr><tr><td>7</td><td>3.5</td><td>4.5</td></tr></table>	Subject	A	B	1	1.0	1.0	2	1.5	2.0	3	3.0	4.0	4	5.0	7.0	5	3.5	5.0	6	4.5	5.0	7	3.5	4.5	12	Section-V
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IMAGE PROCESSING

MR20-1CS0347

QUESTION BANK

Q.No	Question	Marks	Section
1	In detail explain the fundamental steps involved in digital image processing systems.	12	Section-I
2	Distinguish the following relationships between pixels with neat diagrams: i) Neighbourhood of pixel ii) adjacency iii) connectivity iv) Path	12	Section-I
3	a). Explain the image representation graphically and mathematically. b). Explain clearly about image sensing and acquisition.	6 6	Section-I
4	Illustrate how the image is digitized by sampling and quantization process.	12	Section-I
5	a). Write about the applications of digital image processing in various fields. b). Classify different types of images.	12	Section-I
6	Distinguish the following terms and brief each: i). Region ii). Boundary iii). Distance measures	12	Section-I
7	a). Explain the need for transformation in image processing. b). Compare spatial domain image and frequency domain image.	12	Section-I
8	Define 2D-DFT and write any four properties with proof.	12	Section-I
9	What are the components of a digital image processing system? Write in detail about each block.	4 8	Section-I
10	a). Explain about image acquisition? b). Compare about spatial resolution and intensity resolution.	12	Section-I
11	Explain image enhancement in terms of spatial domain and frequency domain clearly.	12	Section-II
12	What is point processing? and what are the various types of point operations?	12	Section-II
13	a). Explain the basic gray-level transformation clearly. b) Compare the point operation and the mask operation.	6 6	Section-II
14	Define histogram? Explain histogram equalization with a suitable example.	12	Section-II
15	Explain image smoothing in terms of various spatial filters.	12	Section-II
16	Explain image sharpening in terms of various spatial filters.	12	Section-II
17	Classify the performance of following sharpening filters a) Ideal HPF b) Butterworth HPF c) Gaussian HPF	4 4 4	Section-II

18	Distinguish between image smoothing filters and sharpening filters. And also specify their advantages and drawbacks.	12	Section-II
19	Define Image negative, Contrast stretching and Gray level slicing?	12	Section-II
20	Analyze the performance of following smoothing filters a) Ideal Low Pass Filter b) Butterworth Low Pass Filter c) Gaussian Low Pass Filter	12	Section-II
21	Explain model of image degradation and restoration process with a block diagram?	12	Section-III
22	Discuss about different types of Image Blur	12	Section-III
23	Discuss the process of image restoration by direct inverse filtering?	12	Section-III
24	Explain the method of Least Mean Squares Filtering (Wiener) for image restoration?	12	Section-III
25	a) Importance of color image processing b) Discuss about color fundamentals	6 6	Section-III
26	Discuss about concept of RGB color model.	12	Section-III
27	Briefly explain about CMYK color model.	12	Section-III
28	Briefly explain about HSI color model.	12	Section-III
29	a) Compare image enhancement and restoration techniques? b) Give the probability density functions for Salt and Pepper noise models	12	Section-III
30	What causes image degradation and how does the restoration process work?	12	Section-III
31	What are the derivative operators useful in image segmentation? Explain their role in segmentation.	12	Section-IV
32	What is thresholding? Explain about global thresholding	12	Section-IV
33	Explain about basic adaptive Thresholding process used image segmentation	12	Section-IV
34	Explain in detail the threshold selection based on boundary characteristics	12	Section-IV
35	Explain about region-based segmentation	12	Section-IV
36	Describe about the canny edge detector with necessary equation and also write its algorithm.	12	Section-IV
37	Define classification of edges, edge detection and edge linking?	12	Section-IV
38	Explain about Region Splitting and Merging with an example	12	Section-IV
39	a). Illustrate the condition to be met by the partitions in region-based segmentation. b) List the various methods of thresholding in image segmentation.	6 6	Section-IV

[illegible]

Qno	Question	Marks	Section
1	Explain the advantages & disadvantages of distributed database.	12	Section-I
2	What are the Factors Encouraging DDBMS	12	Section-I
3	What are the distribution design issues? Explain with examples.	12	Section-I
4	Explain about Architectural Models for DDBMS	12	Section-I
5	Write and explain problem areas of distributed data base system	12	Section-I
6	Write about difference between centralization and decentralization database	12	Section-I
7	What is the difference between Homogeneous and Heterogeneous Distributed DBMSs	12	Section-I
8	What are the distribution design issues? Explain with examples.	12	Section-I
9	Explain briefly about Fragmentation with suitable examples.	12	Section-I
10	Explain Top Down Design Process for distributed database design	12	Section-I
11	Explain query processing with examples.	12	Section-II
12	Give objective of query processing in view of distributed database	12	Section-II
13	Briefly describe the characterization of query processors.	12	Section-II
14	Explain Layers of Query Processing	12	Section-II
15	List steps of query decomposition and explain any one from that.	12	Section-II
16	Explain Semi join Based Algorithms	12	Section-II
17	Explain System R Algorithm	12	Section-II
18	Explain System R * Algorithm	12	Section-II
19	Explain Hill-Climbing Algorithm	12	Section-II
20	what are the steps in query optimization	12	Section-II
21	Briefly explain transaction management	12	Section-III
22	Describe ACID properties with example.	12	Section-III
23	What about Types of Distributed Transaction	12	Section-III
24	What is the objective of Distributed Concurrency Control?. Give the Reasons.	12	Section-III
25	Write about Types of Locks in Distributed Transactions. List out different methods of Concurrency Control.	12	Section-III
26	Explain serializability with an example.	12	Section-III
27	Briefly explain about Lock based concurrency algorithms	12	Section-III
28	Briefly explain about 2 PL concurrency algorithms	12	Section-III
29	Briefly explain about timestamp-based concurrency algorithms.	12	Section-III
30	Briefly explain about validation-based concurrency algorithms	12	Section-III

31	<i>Explain the failures in DDBMS.</i>	12	Section-IV
32	<i>Define Reliability and Availability in DDBMS</i>	12	Section-IV
33	<i>Explain Reliability Concepts and Measures</i>	12	Section-IV
34	<i>Write about fault-tolerance in distributed systems</i>	12	Section-IV
35	<i>Briefly explain Advantages & Disadvantages of Parallel DBMS</i>	12	Section-IV
36	<i>Difference between Parallel and Distributed databases</i>	12	Section-IV
37	<i>Draw and explain general architecture of Parallel Database system</i>	12	Section-IV
38	<i>Explain types of parallelism used by parallel DBMS</i>	12	Section-IV
39	<i>Explain Load Balancing Approach in Distributed System</i>	12	Section-IV
40	<i>Explain database clusters with Architectures in Parallel DBMS</i>	12	Section-IV
41	<i>List and explain Object-oriented concepts</i>	12	Section-V
42	<i>Explain about Object Oriented Data Model</i>	12	Section-V
43	<i>Explain Applications for OO databases</i>	12	Section-V
44	<i>Write about object distributed design</i>	12	Section-V
45	<i>Lists out and explain architectural issues,</i>	12	Section-V
46	<i>Write about Object management, distributed object storage.</i>	12	Section-V
47	<i>Briefly explain Inheritance, object identity</i>	12	Section-V
48	<i>What is persistent programming languages and explain PPL</i>	12	Section-V
49	<i>Write about persistence of objects in DDBMS</i>	12	Section-V
50	<i>What is the comparison OODBMS and ORDBMS</i>	12	Section-V