Paper / Subject Code: 52771 / Distributed Computing

| 11 | me:(5 Hours) marks:a | U |
|--------|--|--------------|
| N.B: | 1) Question number 1 is compulsory. | |
| | 2) Attempt any three out of the remaining. | |
| | 3) Assume suitable data if necessary and justify the assumptions. | (5) |
| | 4) Figures to the right indicate full marks. | |
| | | |
| Q 1 | | |
| A | Explain how Monotonic read consistency model is different than Read your Write consistency model | [5] |
| Е | What is 1:M and M:1 group communication? | [5] |
| C | Differentiate between NOS DOS and Middleware in the design of distributed systems | [5] |
| Г | What is fault tolerance? Explain failure models. | [5] |
| | | |
| Q 2 | | |
| A | Explain code migration and its techniques. | [10] |
| Е | Explain Bully election algorithm with suitable example. | [10] |
| | | |
| Q 3 | Funds: Derman Paulantido for model analytica | F101 |
| A E | | [10] [10] |
| Ş L | what are different data centric consistency moders | [10] |
| Q 4 | | |
| A | Explain different load estimation and process transfer policies used by load balancing | [10] |
| £80 - | algorithms. | F1.03 |
| E | What are physical clocks? Explain any one physical clock synchronization algorithm. | [10] |
| | | |
| Q 5 | | |
| A To | | [10] |
|) E | Explain file caching schemes | [10] |
| - < | | |
| Q 6 | Water Dark and Dark and Dark and Dark | F107 |
| P A | | [10] |
|) E | what is KIC: Explain working of KFC in detail | [10] |
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| | | (3 Hours) Total Marks: 8 | 30 |
|----------------|-------|--|-------------|
| N | ote: | | |
| 1. 2. 3. | Att | estion No. 1 is compulsory. empt any THREE out of the remaining FIVE questions. sume suitable data if necessary. | |
| Q. 1. | | Answer any FOUR of the following: | (20) |
| | (a) | What is the scope and importance of HR management? | 2 |
| | (b) | Explain Maslow's Hierarchy of Needs theory. | |
| | (c) | What is a Group? What are its types? Give its advantages and limitations. | |
| | (d) | Write short note on Team Roles with a case study. | |
| | (e) | Discuss on Need, objectives of MIS in HR systems. | |
| Q. 2. | (a) o | What is the need of defining Corporate Mission, Vision in an Organization? | (10) |
| | (b) | Differentiate between Training and Development. Discuss on Training | (10) |
| | | methods. | 607 |
| Q. 3. | (a) | What are the steps in Organizational Decision making process? | (10) |
|) | (b) | Discuss on Leadership Styles. | (10) |
| Q. 4. | (a) | What are the steps involved in Recruitment process? | (10) |
| Q. 4. | (b) | What is Cross- Cultural Leaderships? | (10) (10) |
| Q. 5. | (a) | Define Organization. Discuss in short about Structure, size, technology and Environment of Organization. | (10) |
| | (b) | Write short notes on Job-enrichment and Employee Morale | (10) |
| Q. 6. | | Attempt the following:- | (20) |
| | (a) | How is BPR a tool for Organizational Development? Give a case study. | |
| | (b) | Discuss on Herzberg theory of Motivation. | |
| | (c) | What is the effect of Perception on Individual Decision Making process? | |
| | (d) | What is personality Development? Discuss its types. | |
| | SE, | | |

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| | Dur | ration: - 3 Hours Marks: 80 | Marks: 80 Marks | |
|--------------|-----------|---|-----------------|--|
| | N.B | (1) Question No 1 is Compulsory. (2) Attempt any three questions out of the remaining five. (3) All questions carry equal marks. (4) Assume suitable data, if required and state it clearly. | ALD WILLIAM | |
| Q.1 | a. | Solve any four Explain hyperlink Analytics? | 20 (4x5) | |
| | b. | Specify the significance of Social Media KPI | | |
| | с. | Differentiate between static and dynamic social media text. | Zey. | |
| | d. | Explain the steps needed to formulate a social media strategy. | | |
| | e. | Explain The benefits of brand building. | | |
| Q.2 | a. | Explain the two main categories of search engine analytics. | 10 | |
| | b. | What is text analytics, and Explain the steps in text analytics with an example. | 10 | |
| Q.3 | a. | Explain briefly the seven layers of social media analytics with examples. | 10 | |
| Q. .5 | а. b. | What is a social media-based recommendation system and how does it differ | | |
| | | from a traditional recommendation system? | 10 | |
| Q.4 | a. | What is search engine optimization? What are the different methods to do it? | 10 | |
| | b. | What is social media risk? Explain the four steps in social media risk management | 10 | |
| 5.5 | 9 - | Explain various issues addressed in privacy policy | 10 | |
| Q. | b. | What is Location analytics? Explain its significance in context of social | 10 | |
| | 37. | media analytics? | 10 | |
| 0.6 | | Write short notes on any two | 20 (2x10) | |
| - | a. | Challenges of social media analytics | | |
| | b. | Social Media Action analytics | | |
| | c. | Types of Social media risk | | |
| | d. | Intention analysis in social media. | | |

| Гime: | 3hour | s Marks: 80 | |
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| | NB. | | |
| | 1) | Question number 1 is compulsory | 5 |
| | 2) | Attempt any three out of the remaining five questions. | |
| | 3) | Assume suitable data if necessary and justify the assumptions. | |
| | 4) | Figures to the right indicate full marks | |
| Q1 | | Answer the following | 20 |
| | a) | Explain the significance of data science considering Volume and Dimensions of Data. | |
| | b) | Explain performance evaluation with respect to Time series forecasting | |
| | c) | Write a note on measure of spread | |
| | d) | Write a note on Applications of Data Science | |
| Q2 | a) | Explain Cross Validation, K-fold cross validation in detail | 10 |
| | b) | Explain the Data Science Process in detail | 10 |
| Q3 | a) b) | What is Data Visualization? What is Multivariate data? Explain with an example Scatter plot. What are Outliers and their Causes? Can Statistics be used to detect Outliers if yes, Explain. | 10 |
| Q4 | a)b) | Explain SMOTE in detail Calculate the Bowley's coefficient of skewness from the following distribution. | 10 10 |
| | | Income NO. of persons | |
| | | 30 - 40 8 | |
| | | 40 - 50 | |
| | | 50 - 60 48 | |
| | 20° | 60 - 70 68 | |
| | | 70 - 80 | |
| | | 80 -90 13 | |
| | | 90 - 100 | |
| | .20 | | |
| Q5 | a) | Explain Smoothing methods in Time Series Forecasting | 10 |
| D. 188 | b) | A stenographer claims that she can type at the rate of 120 words per minute. Can we reject her claim on the basis of 100 trails in which she demonstrates a mean of 116 words with a standard deviation of 15 words? Use 5 % level of significance, $Z_{\alpha} = 1.96$. | 10 |
| | | | |
| Q6 | a) b) | What are Recommendation engines? Explain. Time series analysis using linear regression | 10 10 |
