Jayawant Shikshan Prasarak Mandal’s

Bhivarabai Sawant Institute of Technology & Research Wagholi, Pune – 412 207

Department Of Computer Engineering

Academic Year 2020-21(Sem I)

Class : BE Subject : Data Analytics

Marks : 30 Time : 1 hour

Class TEST: II

*Instructions to the candidates:*

* ***Assume suitable data, if necessary***
* ***Solve All***

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| Q. 1 | Explain following terms:   * Power and sample size * ANOVA | 06M |
| Q. 2 | When do we use wilcoxon rank sum test?write steps in the test | 06M |
| Q.3 | |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Height | 185 | 170 | 168 | 179 | 182 | 188 | 180 | 180 | 183 | 180 | 180 | 177 | | Weight | 72 | 56 | 60 | 68 | 72 | 77 | 71 | 70 | 84 | 88 | 67 | 76 |   Use the above data and group them using K Means Clustering Algorithm. show calculation of centroid. | 06M |
| Q. 4 | Explain type 1 and type 2 errors? | 06M |
| Q. 5 | Cluster the following eight point (with(X,Y) representing locations)into three cluster:  A1(2,10),A2(2,5),A3(8,4),A4(5,8),A5(7,5),A6(6,4),A7(1,2),A8(4,9)  Note:use manhatten distance algorithm | 06M |