Birla Institute of Technology and Science, Pilani

Work Integrated Learning Programmes Division

Cluster Programme - M.Tech. in Data Science and Engg.

II Semester 2018-19

| Course Number | DSECF ZC416 | | |
|-----------------------|--------------------------------|-------------|----|
| Course Name | Mathematical Foundation for Da | ta Science | |
| Nature of Exam | Open Book | # Pages | 2 |
| Weightage for grading | | # Questions | 4. |
| Duration | 2 hours and 30 minutes | - | |
| Date of Exam | 28/09/2019 (10:00 - 12:30) | | |

Instructions

- All questions are compulsory.
- Questions are to be answered in the order in which they appear in this paper and in the page numbers mentioned before each of them.

Pages 2-6

Q1a) Prove or disprove: If S is a finite subset of a vector space V, then the linear span L(S) is the smallest subspace of V containing S. (2)

b) Prove or disprove: There is a linear transformation T : R⁴ → R³ with KerT = {0}.
(2)

c) Prove or disprove: The eigenvectors of $\begin{pmatrix} \cos(\theta) & -\sin(\theta) \\ \sin(\theta) & \cos(\theta) \end{pmatrix}$ are $\begin{bmatrix} i \\ 1 \end{bmatrix}$ and

$$\begin{bmatrix} -i \\ 1 \end{bmatrix}$$
 for $\theta \neq 0, \pi$ (2)

d) Apply Gauss elimination with partial pivoting to solve (4)

$$\begin{pmatrix} 0.02 & 0.01 & 0 & 0 \\ 1 & 2 & 1 & 0 \\ 0 & 1 & 2 & 1 \\ 0 & 0 & 100 & 200 \end{pmatrix} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 \end{pmatrix} = \begin{pmatrix} 0.02 \\ 1 \\ 4 \\ 800 \end{pmatrix}$$

Pages 7-11

Q2a) Prove or disprove $\lfloor x \rfloor + \lfloor y \rfloor + \lfloor x + y \rfloor \le \lfloor 2x \rfloor + \lfloor 2y \rfloor$ for all real numbers x and y. (2)

b) Draw the graph of the function $f(x) = \left[2\left[\frac{x}{2}\right] + \frac{1}{2}\right]$ (2)

c) Use Warshall's algorithm to find the transitive closure on {a, b, c, d, e} for the relation {(a, b), (a, c), (a, e), (b, a), (b, c), (c, a), (c, b), (d, a), (e, d)}.
(2)

d) A relation R is called circular if aRb and bRc imply that cRa. Show that R is reflexive and circular if and only if it is an equivalence relation. (4)

Pages 12-15

Q3a) Find the number of paths of length 3 between any two adjacent vertices in $K_{3,3}$ (3)

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