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| **POST MIDTERM TEST**  **CRT-04** | | | |
| **NAME :** | **CLASS: XII – EINSTEIN** | **SUBJECT: MATHS** | **DATE:**  **25.10.19** |
| **CH: – Three Dimensional Geometry(lines)** | | **MARKS:** | **25** |

1. Find the length and the foot of the perpendicular drawn from the point (2, -1, 5) on the line

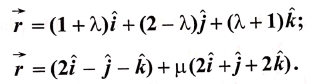
= = . (4)

2. Find the value of , so that the lines = = and = = are perpendicular to each other. (4)

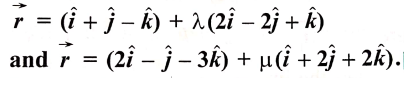
3. Find the Cartesian equation of the line which passes through the point (-2, 4, -5) and is parallel to the line = = . (4)

4. Find the point on the line = = at a distance from the point (1, 2, 3). (4)

5. Find the shortest distance between the following two lines:

 (4)

6. Find the equation of a line passing through the point *P*(2, -1, 3) aqnd perpendicular to the lines:

 (5)