**CT& DT - SPSU – “BRAINSTORMERS” -TASK#02**

**TASK#02 - IDENTIFYING ANY 4 COMPLEX PROBLEMS**

Section - D

COMPLEX PROBLEM TABLE:



|  |  |  |  |
| --- | --- | --- | --- |
| S. NO. | APPLICATION DOMAIN | COMPLEX PROBLEM IDENTIFIED | JUSTIFICATION |
| 1. | **Telecommunications, providing services such as**   * **Mobile and landline telephony** * **Broadband internet** * **Fibre - to- the – home(FTTH** * **Enterprises solution across india** | **BSNL faces several challenges in expanding its network infrastructure by installing new signal towers.** | * **Identifying suitable locations** * **Obtaining permission of local authority** * **Power supply** * **Environmental clearance** |
| 2. | **Its domain can be stated as**   * **Ride hailing** * **Food delivery(Uber Eats)** * **Freight and logistics** * **Public transportation integration** | **When Uber was started , it faced many issues as it disrupted traditional transportation models.** | * **Lack of clear regulation** * **Resistance from the taxi industry** * **Permitting and licensing** * **Safety and security concerns** * **Operational challenges like customer support** |
| 3 | **Its application domain is**   * **Transportation and connectivity** * **Tourism development** * **Defence and security** * **Disaster management** * **Mining and resource extraction** | **Constructing roads in hilly areas presents unique challenges.** | * **Complex terrain** * **Weather conditions** * **Ensuring safety , sustainability and stability.** * **Landslides and soil erosion** |
| 4. | **Its has broad application, some key areas are stated as**   * **Healthcare** * **Finance** * **Legal and compliance** * **Ethical AI** | **Making AI models, especially deep learning networks, interpretable and explainable to users and stakeholders** | * **Black box nature of AI** * **High dimensionability** * **Non– linearity** * **Diverse stakeholders** * **Ethical and regularity requirements** |

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