**TU/ CDOE**

**TEZPUR UNIVERSITY**

**SEMESTER END EXAMINATION (SPRING) 2024**

**DIPEVMD/DEM 202: ENVIRONMENTAL POLLUTION AND MITIGATION**

Time: **3 Hours** Total Marks:**70**

*The figures in the right-hand margin indicate marks for the individual question.*

| 1. | State true or false. | 1x5=5 |
| --- | --- | --- |
|  | A. Ozone layer is present in the stratosphere.  B. Phytoremediation can be used for removal of water pollutants only.  C. Rhizobacteria is an example of beneficial soil microbes.  D. Dissolved oxygen of a water body increases with increase in temperature.  E. Bacteria play a vital role in nitrogen fixation. |  |
| 2. | Fill in the blanks.   1. Decibel is the unit of ............... 2. Horizon is the discrete layers of .......... profile. 3. ………………. earthworms live on the upper surface of soil. 4. Thermal decomposition of biomass in absence of oxygen is known as .............................. 5. Geothermal energy is an example of .................................. resources. | 1x5=5 |
| 3. | Define the following.  A. Water Pollutants B. Soil profile  C. Bioaccumulation D. Biomagnification  E. Phytoremediation | 2x5=10 |
| 4. | Write short notes [any four].   1. Soil pollution 2. Effects of oil spill on aquatic life 3. Environmental effects of acid rain 4. Beneficial roles of earthworms in agriculture 5. Indoor air pollutants | 5x4=20 |
| 5 | What are the natural and anthropogenic sources of air pollution? | 5 |
| 6. | Why water monitoring is important? Discuss. | 5 |
| 7. | How is landfill gas generated? Write down the components of landfill gas. What are the benefits of using landfill gas as a resource? | 2+2+6=10 |
| 8. | Discuss the causes of soil salinity. What measures can be taken to treat the saline soil? | 5+5=10 |
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