

**BINDURA UNIVERSITY OF SCIENCE EDUCATION**

**FACULTY OF SCIENCE AND ENGINEERING**

**DEPARTMENT OF SUSTAINABLE DEVELOPMENT**

**BACHELOR OF SCIENCE IN SUSTAINABLE DEVELOPMENT**

**DG 110: ENVIRONMENTAL SYSTEMS**

**TIME: 3 HOURS**

**ANSWER ANY THREE QUESTIONS. MARKS FOR EACH QUESTION ARE INDICATED IN BRACKETS [ ].**

---

1. As a Project Manager responsible for a conservation project in a tropical rainforest, how will you incorporate the concepts of ecosystem components, flows, and transfers into your project plan? [25]
2. A project management team is tasked with managing water resources in a drought-prone area. How can understanding the key features of a hydro system and the drainage basin system help them make informed decisions? [25]
3. You have just received a final set of climate data for your project's location. How will you use this data to address challenges related to micro-scale circulation systems? [25]
4. A project management team is assessing the stability of a construction site. How can the understanding of crustal systems and slope systems help them mitigate geological risks? [25]
5. You have been managing an environmental conservation project. How would you differentiate between morphological, cascading, and process-response systems to better understand environmental impacts? [25]

**END OF PAPER**