

BINDURA UNIVERSITY OF SCIENCE EDUCATION

FACULTY OF SCIENCE AND ENGINEERING

DEPARTMENT OF DISASTER RISK REDUCTION

**BACHELOR OF SCIENCE HONOURS DEGREE IN DISASTER
MANAGEMENT SCIENCE
(HBSc.DMSc.)**

DMG228: INTRODUCTION TO REMOTE SENSING

EXAMINATION

TIME: 3 HOURS

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

- 1 Using one example of a natural disaster, outline uses of passive remote sensing data. [25]
- 2 Describe the importance of high spatial resolution data to characterize disasters. [25]
- 3 Explain the five major challenges associated with active remote sensing satellite data for applications in flood mapping. [25]
- 4 Illustrate the application of remote sensing during early warning for one named disaster of your choice. [25]
- 5 Discuss the notion that drones are the ultimate solution to disaster management challenges in developing countries. [25]

END OF EXAMINATION