BINDURA UNIVERSITY OF SCIENCE EDUCATION

FACULTY OF SCIENCE AND ENGINEERING

DEPARTMENT OF ENGINEERING AND PHYSICS

PROGRAMME: BACHELOR OF SCIENCE HONOURS DEGREE IN ELECTRONIC ENGINEERING

EEE2107 (2): RESEARCH METHODS

DURATION: 3h TOTAL MARKS: 100

INSTRUCTIONS TO CANDIDATES

1. Answer question one and any other two.
2. Start the answers for each question on a fresh page.

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1. Compare and contrast traditional and sustainable engineering designs. [40]

2. The hottest temperature in the United States ever recorded by the National Weather Service, 56.7 degrees Celsius [°C], occurred in Death Valley California, on July 10,1913. You are asked to design the temperature sensors in both degrees Celsius and Fahrenheit Calculate this value in units of degrees Fahrenheit [°F]. [30]

3. Explain the distinct stages of Engineering Design clearly give each stage characterization and properties. [30]

4. Define Sustainable Design referencing to Electronic Engineering. Compare and contrast traditional against sustainable designs approaches. [30]

5. Using a diagram explain ABET design approach. [30

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