## BINDURA UNIVERSITY OF SCIENCE EDUCATION

#### BACHELOR OF SCIENCE DEGREE

NRF 407(1)

# DEPARTMENT OF NATURAL RESOURCES BES PART IV: Examination

#### **SAWMILLING & WOOD TECHNOLOGY**

2 HOURS (70 MARKS)



#### INSTRUCTIONS

Answer THREE questions out of the following five questions. You must answer question One from SECTION A and any TWO questions from SECTION B.

### SECTION A (COMPULSORY)

1.	(a) Discuss the distinguishing features between angiosperms and gymnosperms.	[15 Marks]
	(b) State the three types of saws used in sawmilling.	[3 Marks]
	(c) Define 'set' as used in sawing operations.	[3 Marks]
	(d) Explain the three techniques used to achieve set on saws.	[9 Marks]

#### SECTION B

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2.	Discuss the oven drying method for wood moisture content determination.	[20 Marks]
3.	Discuss the effects of silvicultural operations on wood properties.	[20 Marks]
4.	(a) Explain the sources of variation in specific gravity of wood.	[10 Marks]
	(b) Discuss the environmental impacts of producing wood in intensively managed plantations.	[10 Marks]
5.	Discuss the factors that affect the strength properties of clear wood.	[20 Marks] ;

#### END OF PAPER