BINDURA UNIVERSITY OF SCIENCE EDUCATION

FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE

DEPARTMENT OF ENVIRONMENTAL SCIENCE

ESM 112

HUMAN ANATOMY AND PHYSIOLOGY

DURATION: 2hrs

" MIN 2024

TOTAL MARKS: 70

INSTRUCTIONS TO CANDIDATES

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

SECT	TION A (COMPULSORY)	
1.	a) Discuss the hormonal and neural signals, showing the overlap between the mode of operation of the respective body systems.	[20]
	b) Explain transmission of impulses along neurons and across the synaptic gap.	[10]
SECT	TION B	
2.	a) Describe the different types of functional articulations of the Skeletal System.	[10]
	b) Explain the process of Endochondral Osteogenesis.	[10]
3.	Describe the following human body cavities:	
	a) Dorsal cavity	[5]
	b) Ventral cavity	[5]
	c) Thoracic cavity d) Abdominopelvic cavity	[5] [5]
4.	a) Describe metabolic processes.	[5]
	b) Explain with the aid of examples Homeostatic mechanisms.	[15]
5.	,	[1]
	i) Anatomy ii) Physiology	[1]

iii)	Ossification	[1]
iv)	Immunity	[2]
v)	Homeostasis	[3]
b) State the Layers of the Dermis		[2]
c) Drav	[10]	

End of Paper