BOWEN UNIVERSITY, IWO COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE PURE AND APPLIED BIOLOGY PROGRAMME 2022/2023 FIRST SEMESTER EXAMINATION PAB 405: DEVELOPMENTAL BIOLOGY (THEORY)

Instruction: Answer any three questions.

Time allowed: 2hrs:30mins

1.	Write a concise note on the following (with appropriate diagram):		
	(a) Primary meristems based on stages of development		(15 marks)
	(b) Meristems based on position in plants		(10 marks)
2.	(a) What are the roles of auxins in plant tissue culture?		(5 marks)
	(b) State five biological effects of auxins in plants.		(10 marks)
	(c) List five synthetic auxins commonly used in plant cell cultures.		(10 marks)
3.	(a)	State five physiological effects of abscisic acid	(15 marks)
	(b)	List the four principles of Karl Ernst von Baer	(10 marks)
4.	Briefly explain the following;		
	a)	Epigenesis and Preformationism	(10 marks)
	b)	Gastrulation	(5 marks)
	c)	Cleavage	(5 marks)
	d)		(5 marks)
5.	Discuss homology and analogy in developmental biology.		(25 marks)