## UNIVERSITY OF THE PUNJAB

Third Semester – 2019
Examination: B.S. 4 Years Program

	•			76	LT.																
J	<	0	II	1	V	0		•	•	•				9	•	•	9	• •	•	•	
_	_	-		-	-		-					•		•			n	-			

MAX. TIME: 2 Hrs. 45 Min.

MAX. MARKS: 50

#### PAPER: Biology Course Code: BIO-112 Part – II

### ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

### Q. No. 2: Give brief answers of following questions. $(10 \times 2)$

- 1. What is the Difference between CNS and PNS?
- 2. What do you know about biodiversity? Also define acid rain?
- 3. What is the difference between endangered species and threatened species?
- 4. Differentiate between dominance and epistasis.
- 5. Why Interphase is defined as a resting phase?
- 6. What is the function of RNA polymerase in transcription?
- 7. Define Photoperiodism and its effects.
- 8. Write down the names of flower parts with labeled diagram.
- 9. Write down main differences between auxins and Cytokinins.
- 10. What is neuron? Draw its structure.
- Q. No. 3: Define Osmoregulation. Describe Osmoregulation in plants as well as in animals. (10)
- Q. No. 4: Define specialized plant cells. Also explain significance of secondary growth. (5)
- Q. No. 5: Write a note on Hypothalamus and Pituitary Gland. (5)
- Q. No. 6: What is a Gene? Also describe how DNA encodes protein structure? (5)
- Q. No. 7: Why meiosis is called reductional division and what is its significance? (5)

# UNIVERSITY OF THE PUNJAB

Third Semester – 2019
Examination: B.S. 4 Years Program

1	Roll N	Vo. ir	Wo	rds.			
,							
	`\						
	,/	•••••	•••••	•••••	•••••	•••••	***
151	Min.	١.					
α 4	0	`,					

Roll No. in Fig. ....

PAPER: Biology

Course Code: BIO-112 Part-I (Compulsory)

MAX. TIME: 15 Min.\
MAX. MARKS: 10 \Signature of Supdt.:

Attempt this Paper on this Question Sheet only.

Please encircle the correct option. Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

1. Pectin is an examp	le of		
A). Disacchar	rides	B). Polysaccharides	
C). Monosaco	harides	D). Oligosaccharides	
2. DNA is the carrier	of	= // Ongosaconanidos	
A). Ribozyme	S	B). Genetic Markers	
C). Nuclear M	aterial	D). Genetic Message	
3. The protection of a which of the fo	n internal environ	oment from the harms of fluctuations is the definition of	
A). Osmoregul	ation	B). Excretion	
C). Thermoreg	ulation	D). Homeostasis	
4. Endoplasmic reticul	um (ER) is a comp	olex, membrane system.	
A). Two dimen		B). Four Dimensional	
C). Three Dime	nsional	D). Ten Dimensions	
5. Plants growing in wa	nterlogged soils and	d aquatic environments contain tissues.	
A). Storage pare		B). Pseudoparenchyma	
C). Aerenchyma	1	D). Chromoplast Parenchyma	
6. A nerve is a			
A). Bundles of a	xons and dendrites	s of axons B). collection of neurons	
C). Concentratio	n of dendrites and	axons D). None of these	
7. Thyroid glands produ	ice		
A). Tri-iodothyro	onine	B). T3, T4 and calcitonin	
C). Calcitonin		D). Tetraiodothyronine	
8. Mitosis is divided into			
A). Interphase		B). Karyokinesis	
C). Cytokinesis		D). B and C	
9. Which of these is incor	rectly matched?		
A). Protoplast- pla	nt cell engineering	B). DNA polymerase- PCR	
C). DNA ligase- m	napping human chro	omosomes D). RFLPS-DNA finger printing	
10. Which of the biomass	has been increased	in area by human activities?	
A). Savana		B). Grassland	
C). Desert	- 1	D). Coniferous	