filling two or more circles will result in zero mark in that question. Q1. 12 1. In 1927 an English Ecologist developed the concept of Ecological pyramids. (A) Charles Elton (B) Mendel (C) Darwin (D) Lamark Animal Breeding is a form of: 2. (A) Pharmacology (D) Morphology (B) Cell Biology (C) Biotechnology Mescaline belongs to: 3. (A) Antibiotics (B) Vaccine (C) Sulpha drugs (D) Hallucinogens If both lungs are infected the disease is called: (A) Typhoid (B) Double Pneumonia Gout (D) Arthrites 5. U Shape Renal Tubules is called: (A) Neuron (B) Pyramids (C) Loop of Henle (D) Cortex 6. There are major region of Human Brain. (A) 2 (B) 3 (C) 4 (D) 5 The middle layer of Eye is called: 7. (A) Sclera (B) Retina (C) Cornea (D) Choroid 8. Tendons and ligaments are bands of: (A) Muscular tissue (B) Nervous tissue (C) Epidermal tissue (D) Connective tissue 9. Bryophyllum (Pather Chut) is an example of: (A) Stem Tubers (B) Bulbs (C) Suckers (D) Leaves 10. Amoeba reproduces a sexually by: (A) Budding (B) Binary fission (C) Fragmentation (D) Multiple fission 11. James Watson and Francis Crick proposed the structure of DNA. (A) 1955 (B) 1954 (C) 1854 · (D) 1953 12. Mendel selected a plant: (A) Pea (B) Rose (C) Cabbage (D) Mustard

NOTE: Four possible answers A, B, C and D to each question are given. The choice which you

think is correct, fill that circle in front of that question with Marker or Pen ink. Cutting or

Dera Ghazi Khan Board 2019 (First Group)

Roll No.(in Figures):	(in Words)	:
Maximum Marks: 48 SUBJECTIVE	TYPE	Time Allowed :1.45 Hours
(PART -	1)	*
Q2. Write short answers to any FIVE (5) questions:		$(5 \times 2 = 10)$
(i) How does the gaseous exchange occur in leaves	and young st	ems?
(ii) What is meant by diaphragm?		- 112 3
(iii) Differentiate between Stomata and Lenticels.		Stage a Stage
(iv) Define Hydrophytes and give an example.		
(v) What is meant by concentrated urine? Give its re	eason.	
(vi) What is meant by Saltatory impulses?		
(vii) Differentiate between Sensory Neurons and Inte	r-neurons.	
(viii) What is Thalamus? Write its function.		
Q3. Write short answers to any FIVE (5) questions:		(5×2=10)
(i) Differentiate between movement and locomotion	n.	
(ii) Differentiate between Osteocytes and Chondroc	ytes.	
(iii) What is reproduction? Write names of its two ba	sic types.	t n v s∆s "
(iv) Define Budding and give one example.		
(v) Differentiate between Self Pollination and Cross	Pollination.	
(vi) What are Homozygous genotype and Hetrozygo	us genotype?	
(vii) Differentiate between monohybrid cross and dih	ybrid cross.	
(viii) Write two sources of variations.	6	
Q4. Write short answers to any FIVE (5) questions:	46	(5×2=10)
(i) Define food web.	0	
(ii) Differentiate between herbivores and carnivores	25	* 100m
(iii) What is atmospheric nitrogen fixation?		
(iv) Write down two advantages of using fermenters		
(v) Write down few uses of formic acid.		
(vi) Define narcotics. Give examples.		
(vii) What is the difference between antiseptics and a	ntibiotics?	
(viii) What is meant by pharmacology?	YY\ .	
(PART -	11)	
Note: Attempt any TWO questions.		(2×9=18)
Q5. (a) Explain the removal of extra water and other	metabolic wa	astes from plants. 4
(b) What is the location of thyroid gland? W	rite about it	s hormones and the defects
produced by their under and over production	•	5
Q6. (a) What is artheritis? Describe its three types.		4
(b) Describe the development and structure of s	eed.	5
Q7. (a) What is meant by Ecological Pyramids? Expl		77.
(b) Describe the scope and importance of Biotec		5

Q1.		ircles will result in ze			
1.	All of these are hormones except.				
	(A) Insulin	(B) Glucagon	(C) Glycogen	(D) Estrogen	
2					
	(A) 22	(B) 21	(C) 20	(D) 19	
3,	Method of asexual r	eproduction in yeas	t is:		
	(A) Multiple fission	(B) Binary fission	(C) Budding	(D) Spore formation	
4.	Asexual reproduction by suckers takes place in:				
	(A) Mint	(B) Lily	(C) Ginger	(D) Potato	
5.	The genotype of blo	od group O is:	orași, de cena		
	(A) IAIA	(B) I ^B I ^B	(C) IAI	(D) II	
6.	Union of sperm and ovum is called:				
	(A) Gamete	(B) Genes	(C) Fertilization	(D) Allele	
7.	All ecosystems of the world together from:			Stage of the stage	
	(A) Biosphere	(B) Population	(C) Community	(D) Species	
8.	Lactic acid fermentation takes place by:				
	(A) Algae	(B) Yeast	(C) Virus	(D) Bacteria	
9.	Chemicals which kill microorganisms on non-living objects are called:				
	(A) Antiseptics	(B) Antigens	(C) Antibiotics	(D) Disinfectants	
10.	The number of dangerous chemicals in tobacco smoke is:				
	(A) 1000	(B) 2000	(C) 3000	(D) 4000	
11.	The organ for filtera	tion of blood is:	1 2 14		
	(A) Heart	(B) Kidney	(C) Lungs	(D) Brain	
12.	Part of neuron which takes impulses towards cell body are called:				
	(A) Dendrites	(B) Axons	(C) Ganglia	(D) Myelin Sheath	

NOTE:Four possible answers A, B, C and D to each question are given. The choice which you

Dera Ghazi Khan Board 2019 (Second Group) (in Words): ··· Roll No.(in Figures): SUBJECTIVE TYPE Time Allowed :1.45 Hours Maximum Marks: 48 (PART - I) $(5 \times 2 = 10)$ Q2. Write short answers to any FIVE (5) questions: (i) How specific sound for talking is produced? (ii) How expiration occurs? (iii) Give symptoms and cure of pneumonia. (iv) What is meant by metabolic wastes? (v) Define guttation and give one example. (vi) What is meant by night blindness? (vii) What is ganglion? (viii) Where pons are present in brain and what is their function? $(5 \times 2 = 10)$ Q3. Write short answers to any FIVE (5) questions: Differentiate between origin and insertion. (ii) What is meant by antagonism? (iii) What is meant by Fragmentation? Give an example. (iv) Write down procedure of budding in corals. (v) What is meant by parthenogenesis? (vi) Differentiate between monohybrid cross and dihybrid cross. (vii) State Mendel's law of segregation. (viii) What is meant by co-dominance? $(5 \times 2 = 10)$ Q4. Write short answers to any FIVE (5) questions: What is the difference between Producers and Consumers (ii) What is meant by pyramid of Numbers? (iii) Define Atmospheric Nitrogen Fixation. (iv) Write two uses of Formic Acid. (v) What do you mean by continuous Fermentation? (vi) Differentiate between sedatives and disinfectants. (vii) Write down four precautions before the use of medicine. (viii) What is cephalosporin? Write its two uses. (PART - II) $(2 \times 9 = 18)$ Note: Attempt any TWO questions. Q5. (a) Explain osmoregulatory function of kidney. (b) What is meant by feed back Mechanism? Explain its two types. 5 Q6. (a) Explain Osteoporosis. (b) Write note on the following: (1) Fragmentation (2) Parthenogenesis 5 Q7. (a) Write a note on nitrogen fixation in nitrogen cycle.

(b) Discuss in detail basic steps in genetic engineering.

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