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(B) Oestrogen

(A) Testosterone

(C) Progesterone (D) Gastrin

229-222-II-(Objective Type)- 5500 (8468)

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Roll No (To be filled in by the candidate)	
(Academic Sessions 2018 – 2020 to 2020 – 2022) PLOT OCY 222-(INTER PART – II) Time Allowed: 2.40 hours	
BIOLOGI	ximum Marks: 68
FAFER - II (Essay Type)	Amidin Marks . 00
	16
2 Write short answers to any EIGHI (8) questions:	
(i) What components of internal environment are affected by external fluthese corrected?	
(ii) What may happen to a cell when placed in a hypotonic environment a hypertonic environment?	
(iii) Justify the statement, "Excretion of uric acid in some terrestrial animato conserve water".	als is an adaptation
(iv) Compare sapwood and heartwood.	
(v) Write the name of unpaired bones of human cranium and face.	
(vi) What is osteoporosis? How is it treated?	
(vii) How do plants detect light or dark period?	
(viii) What is vernalin? How is it produced in plants?	termined?
(ix) What do you mean by the productivity of an ecosystem? How is it de	termined:
(x) What kind of soil conditions are found in grassland ecosystem?	
(xi) What is nutrient cycle? How is this cycle disturbed?	
(xii) Write the sources and harmful effects of CFCs and SO ₂ .	16
3. Write short answers to any EIGHT (8) questions:	16
(i) How plants respond to stimuli?	
(ii) In what way nerve impulse triggers the action potential?	
(iii) How different modalities of sensation work?	loid organisms
(iv) What are multiple alleles? Mention their presence in diploid and hap	ioid organisms.
(v) What is test cross? Write down its uses.	
(vi) Differentiate between gene linkage and linkage group.	
(vii) Write two possible ways to get genes.	
(viii) What are plasmids? Give their two examples.	
(ix) Write down the two uses of PCR amplification.	
(x) Differentiate between autecology and synecology.	
(xi) How the trophic levels are involved in the flow of energy?	
(xii) What is prey and predator interaction? Write its significance.	12
4. Write short answers to any SIX (6) questions:	12
(i) How are area pellucida and area opaca developed?	
(ii) The number of older individuals are expected to rise in humans, discr	uss.
(iii) Why does every genetic code consists of three nucleotides?	
(iv) What do you know about the minimal medium used by Beadle and T	atum?
(v) Describe promoter area in transcription.	167
(vi) Describe mitotic apparatus.	
(vii) Describe Turner's syndrome.	
(viii) Differentiate between homologous and analogous structures.	
(ix) Define Hardy Weinberg Theorem.	
SECTION – II	
Note: Attempt any THREE questions.	1
5. (a) Explain in detail the adaptations in plants to high and low temperatur	re. 4 4
(b) What is food web? Give its significance. Draw a food web.	
6. (a) Explain some major functions of skeletal system in maintenance of h(b) Discuss chemical nature of DNA with reference to nucleoside and nu	numan life. 4 acleotide composition. 4
7. (a) Describe major factors which restore resting membrane potential in a	neuron after
passage of a nerve impulse.	4
(b) Discuss the importance of forests for human.	4
8. (a) Discuss sexually transmitted diseases. How can these be controlled?	4
(b) Write an essay on crossing over.	4
 (a) Discuss abnormal development due to environmental factors and me (b) Explain natural selection and artificial selection as evidence of evolu- 	

229-222-II-(Essay Type)-28000