(3)

Warning:- Please, do not write anything on this question paper except your Roll No.

1221 (Inter Part-II)

(Session 2017-19 to 2019-21)

Biology (Subjective)

540-21

Paper (II)

Maximum Marks: 68

Time Allowed: 2.40 hours

Section ----- I

2. Answer briefly any Eight parts from the followings:- $8 \times 2 = 16$ (i) Compare physical control system with living control system. (ii) Compare hydrophytes with

mesophytes. (iii) Describe thermostat function and feed back mechanism in human. (iv) How hematoma is formed? (v) Differentiate between fibers and sclerides. (vi) Differentiate between hyaline cartilage and fibrocartilage. (vii) How seedless fruits are formed? (viii) Define fruit set in plants. (ix) Differentiate between phytoplanktons and zooplanktons. (x) Write human impact on coniferous

(ix) Differentiate between phytoplanktons and zooplanktons. (x) Write human impact on coniferous alpine and boreal forests. (xi) Differentiate between renewable and non renewable resources.

(xii) What are green house and green house gasses?

3. Answer briefly any Eight parts from the followings:-

 $8 \times 2 = 16$

- (i) Differentiate between stimulus and respons. (ii) What is epilepsy? (iii) Define Kinesis with an example. (iv) Differentiate between complete dominance and co-dominance. (v) Define population and gene pool. (vi) Define linkage and crossing over. (vii) Give two possible ways to get gene of intrest. (viii) What is gene therapy? (ix) Differentiate between transgenic plants and transgenic animals.
- (viii) what is gene therapy? (ix) Differentiate between transgenic plants and transgenic animals.
- (x) What is symbiosis name its types. (xi) Differentiate between ecosystem and biosphere.
- (xii) Define nitrification and denitrification.

4. Answer briefly any Six parts from the followings:-

 $6 \times 2 = 12$

- (i) What are apical meristems? (ii) Explain the compensatory effect in growth. (iii) What are Purines and Pyrimidines? (iv) What is Anti-Sense strand? (v) How the Genetic code is universal?
- (vi) Differentiate between interphase and mitotic phase. (vii) What is metastasis?
- (viii) What is membrane Invagination Hypothesis? (ix) Write a note on the Vestigial organs.

Section ----- II

Note: Attempt any three questions.

 $(8 \times 3 = 24)$

- 5. (a) Discuss osmoregulation in plants.
 - (b) Explain different stages of nitrogen cycle with the help of a diagram.
- 6. (a) Give an account of bones of Skull (cranial and facial)
 - (b) Define chromosomes. Give their chemical composition in detail.
- 7. (a) Differentiate between axons and dendrites.
 - (b) What is acid rain?
- 8. (a) Define parthenogenesis. Explain different types of parthenogenesis.
 - (b) Describe the genetics of colour-blindness in humans.
- 9. (a) Discuss role of Nucleus in development through an experiment.
 - (b) Explain main points developed by Darwin in his book "The Origin of Species".

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1221 Warning:- Plea (Inter Part - II	se write your Roll No. in	the space provided and a	gn. Roll No.
Biology (Objective		7-19 (3/2019-21)	Signof Student
Time Allowed:- 20	de la la la la la completa de la	540-21	Paper (II)
		ER CODE 4465	Maximum Marks:- 17
LEWING THE EXCENTIBLE K. Ith CHAPTER	should be the term of the beautiful to the term of the second of the second	The state of the s	choice which you think is correct, it is righter filling two by most circles well estion paper, on the both sides of the the situation. Use of Ink Remostr or
	s located at high altitude i	as a trut	
(A) Alpine	(B) Boreal		
2. CFCs are produce	ed by	(C) Taigu	(D) Prairies
(A) Fans		dila esta di	
		thines (C) Air conditions	
 Which organ is th 	e central station of metabo	and Refrigerat	lors
MA Finney	(FD) iver	College Carrier Str. 1990 College	
4. Most invertebrate:	s. fish, umphibians and re-	(C) Spleen	(D) Henri
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5. The end of muscle	which remains fixed who	(C) Heterotherm	(D) Homeotherm
(A) Insertion	(B) Belly	m muscle contracts	
6. Muscle is connecti	ed to bone by	(C) Orlgin	(D) Tendon
(A) Ligament	(B) Belly		
7. The processes con-	lucting impulses away fro	(C) & line	(D) Tendon
(A) Dendron	(B) Dendrites	in the call body are called	1
8. Human sperms are	Torned in	(C) Nissl granules	(D) Axon
(A) Seminiferous	(B) Epididyinis		
tubules	(11) Ehmidalis	(C) Vas deferens	(D) Ureter
9. Discharge of egg fr	orn this course of the state of		
(A) Oogenesis	(D) Monatruation		
10. The unspecialized e	Carl Progration	(C) Ovulation	(D) Menopause
(A) Neoblast	ells present in Flatworms	and plantria are	
	(B) Ostcoblast Dowing is Initiation Code	(C) Epiblasi	(D) Hypoblast
(A) GUA		(그리스) 경기 등 경기 시설 중에 시간 인기를 만든다는 하는데 한테 시작한 하는데 없었다면 하다 하는데 하는데 없다.	
12. Synapsis takes place	(B) UGA	(C) AUG	(D) GAC
(A) Leptotene			
13 Failure of somewhen	(B) Zygoteneof chromosomes is called	(C) Pachytene	(D) Diakinesis
(A) Disjunction		ACCOUNTS HAVE BEEN AND AND AND AND AND AND AND AND AND AN	
14 Secretary beauty	(B) Separation	(C) Non-disjunction	(D) Metastasis
(A) 19	nant Secretor gene "Se" of	n chromosome;	
	(B) 9	(C) 7	(D) 21
 Urine is a preferable (A) Blood 	venicle for Biolecknology	product than	
A A MINNIN	CHT MILE	1714 191	(D) Sgrum
16. The change in frequer	icy of alleles at a locus th	at occurs by chance	(10) 100-111111
TO A WASHING FIRE	d Ph I feelant tit igran	provide the personal registration of	(D) Genetic Drift
 The relationship between (A) Parasitism 	cen insects and flowering	plants is an example of	test recircus Tillia
(A) Parasitism	(B) Predation	(C) Mutualism	(ii)) Comment
	1283 - 1221 ALF		(D) Commensulises