

(To be filled in by candidate)

Inter (Part-II)-A-2018

Paper Code

Marks: 17

Sessions;2015-2017 & 2016-2018

Bio	logy	(Objective	Type)
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(A) Holotype

Time	: 20 Minutes			lo anewers	
NOTE	to the guesti	ons on the objective answer	r sheet provided. Four possible	e answers	
110		an are given Which answer	you consider correct, illi the o	Olloopollaing	
	circle A B.C or D given in fro	nt of each question with Ma	rker or pen ink on the answer	sneet provided.	
				/	
1 1	All the genes found in a breed	ing population constitute:		(D) Cons neel	
1.1.	(A) genotype	(B) Genome	(C) Gene frequency	(D), Gene pool	
2	Primer for PCR contains abou	t:			
2.	(A) 05 bases	(B) 1020 bases	(C) 30 bases	(D) 40 bases	
2	Archaebacteria can tolerate te	emperature:			
3.	(A) 45°C	(B) 85°C	(C) 100°C	(D) 120°C	
	Biome is a large:				
4.	(A) Simple community	(B) Complex community	(C) Regional community	(D) Climax community	
_	Desert ecosystem of Mianwal				
5.		(B) Thar	(C) Cholistan	(D) Sahara	
	(A) Thal Treasure of all type of resour				
6.		(B) Climate	(C) Environment	(D) Water	
	(A) Weather A dilute solution compared to	cell concentration is terme	d as:		
7.		(B) Hypotonic	(C) Isotonic	(D) Paratonic	
	(A) Hypertonic Number of NH ₃ molecules re	equired to produce one mole	ecule of urea is:		
8.		(B) 2	(C) 3	(D) 4	
	(A) 1 The bone which provides att		:		
9.		(B) Spongy bone	(C) Cartilage	(D) Hip bone	
	(A) Compact bone				
10	. Which one is not a joint dise	(B) Sciatica	(C) disc slip	(D) Spondylosis	
	(A) Arthritis Nehicle for transport of male				
11		(B) Pollen tube	(C) Pollen grain	(D) Wind	
	(A) Water				
1:	2. Reproduction is necessary	(B) Species	(C) Population	(D) Community	
	(A) Individual	(B) openie			
1	3. Apoptosis is:		(B) Death of cells by tissue demage		
	(A) Division of cells		(D) Weakness of cells		
	(C) Suicide of cells				
1	4. Cell cycle involves:		(B) replication of DNA		
(A) growth of cell		1	(D) growth of cell , replie	cation of DNA and cell division	
	(C) Cell division	al of a pouron is:			
	15. Resting membrane potent	(B) -60mV	(C) -70mV	(D) -80mV	
	(A) -50mV				
and the second	16. Optimum temperature for	growth of plants is.	(C) 1020°C	(D) 510°C	
	(A) 3040°C	(B) 2530°C			
	17. Particular array of chromo	somes that an individual po	(C) Neotype	(D) Paratype	
	(A) Holotype	(B) Karyotype			

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Roll No.

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9. (a) Describe role of nucleus in development.

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Biology (Essay Type

Biology (Essay Type)	A.	
Time: 2:40 Hours	Section - I	Marks: 68
2. Write short answers of any eight parts from the fe	ollowing.	2x8=16
i. What is blubber and in which animals is it found?	ii. Differentiate between osmoregulation and then	moregulation.
iii. What is Pyrexia?	iv. How does digitigrade differ from unguligrade?	
v. What is ball and socket joint?	vi. Define remodeling.	
vii. Give two examples of short day plant.	viii. Write cause and symptoms of syphilis.	/
ix. Give types of organisms present in profundal zone	x. Name different zones of fresh water lakes.	
xi. What is fossil fuel?	xii. Define demography.	
3. Write short answers of any eight parts from the f	following.	2x8=16
i. What is reflex action?	ii. Differentiate between thermoreceptors and no	
iii. Define succession and give one example	iv. Differentiate between genotype and phenotype	
v. What is a test cross? Who devised it?	vi. Differentiate between co-dominance and ove	r-dominance.
vii. What are restriction enzymes? Who first isolated the	em? viii. What are transgenic bacteria?	
ix. What is gene therapy? How cancer cells are killed	I by gene therapy?	
x. Differentiate between biosphere and Niche.		
xi. What are abiotic components of an ecosystem? G	Give examples.	•
xii. Differentiate between action membrane potential	and resting membrane potential.	
4. Write short answers of any six parts from the fo		2x6=12
i. Write down the role of temperature as an external		
ii. What role is played by clear cytoplasm and yellow		
iii. How many chromosomes are found in sugercane		
iv. Define translation.	v. What is the difference between R, and S, type	
vi. What are the events of S-Phase?	vii. Write down the events of metaphase of mitosi	
viii. How does genetic drift effect the gene frequency?		als in Pakistan.
:	Section - II	
NOTE: Answer any three questions from the follow	ving.	8x3=24
5. (a) Describe food web in detail. Also draw the diag		4
(b) Describe the process of concentration of excre		4
6. (a) Discuss deformities of skeleton due to genetic	and hormonal causes.	4
(b) Describe Frederick Griffith's experiment.		4
7. (a) What are receptors? Describe its types.		. 4
(b) Describe importance of forests.		4
8. (a) Write a note on sexually transmitted disease.		4
(b) Define and discuss Test Cross.		4

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(b) Describe non-random rating and selection as factors affecting gene frequency.