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Roll No. 762481 (Tobe filled in by candidate)

Inter (Part-II)-A 2019

Rup-12-19

(For all sessions)

Paper Code 8 4 6 1

Biology (Objective Type)

Time: 20 Minutes

Marks: 17

NOTE: Write answers to the questions on the objective answer sheet provided. Four possible answers A.B,C and D to each question are given. Which answer you consider correct, fill the corresponding circle A,B,C or D given in front of each question with Marker or pen ink on the answer sheet provided.

1.1.	the leaves with very small st	ifface area, are found in:		1"				
	(A) Hydrophytes	(B) Mesophytes	(C	Xerophytes /	(D)	Sciophytes		
2.	The compound which take pa	art in urea cycle is:			1-1	o di opinyi co		
	(A) Adenine	(B) Guanine \	(C	Citrulline /	(D)	Thymine		
3.	Osteomalacia includes a num	nber of disorders in which bon	es re	eceive inadequate:		8 1000000000		
	(A) Water	(B) Oxygen	(C)	Blood /	(D)	Minerals		
4.	Each A-band has a lighter str	ipe in its mid section called.		/				
	(A) A-Zone	(B) H-Zone	(C)) M-Ļ∕ne	(D)	Z-Line		
5.	The receptor cells of planaria	are sensitive to:			30.5			
	(A) Light and pressure	1	(B)	Light, pressure and tou	ch			
	(C) Touch pressure and chemicals			(D) Light, pressure, touch and chemicals				
6.	In nature Pran to Pess Convers	sion occurs in:	\vee					
	(A) Dark	(B) Light	(0)	Morning	(D)	Evening		
7.	Lutenizing hormone in human	female induces:						
	(A) Menstruation	(B) Menopause	(C)	pogenesis	(D)	Ovulation		
8.	The branch of biology which of	deals with the study of abron	nal d	evelopment is:				
	(A) Morphology	(B) Embryology	(C)	Tetatology	(D)	Peratology		
9.	The genetic code for glycine i	is:						
	(A) UAG	(B) GAU	{C}	GUA\	(D)	GGU		
10.	In turner syndrome the affect	ed person have set of chromo	osom	es: \				
	(A) XO	(B) XXY	· (C)	XYY	(D)	XXO		
11.	The leptotene and zygotene	asts for:		\				
	(A) few hours	(B) few days	(C)	few weeks	(D)	few years		
12.	The maturity on set diabetes	of the young is:		1				
	(A) An autosomal recessive	ė trait	(B)	An autosomal dominan	t trai	t		
	(C) A sex linked trait		(D)	A sex influenced trait				
13.	The organisms used as biofilt	ers is:		\\				
	(A) Transgenic plant	(B) Transgenic animal	(C)	Transgenic bacteria	(D)	Transgenic virus		
14.	The floral parts of a flowering	plant are:						
	(A) Homologous	(B) Analogous	(C)	Similar	(D)	Different		
15.	Mutualism is a type of							
	(A) Symbiosis	(B) Commensalism	27.00	Parasitism	(D)	Predation		
16.	The average rainfall in tempe	rate deciduous forest is between						
	(A) 700-2500 m.m	(B) 700-800 m.m		700-1000 m.m	(D)	700-1500 m.m		
17.	The two main causes of air po							
	(A) Automobiles	(B) Urbanization	-	Deforestation	(D)	Overgrazing		
		POE 040	1	•				

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Inter (Part-II) A-2019

Roll No. (to be filled in by the candidate) (For all sessions)

WP-12-19

iv. Define turgor pressure. Give its two functions

x. Discuss productivity of aquatic ecosystem.

ii. What are the functions of oxytocin hormons?

iv. Define linkage and give its one disadvantage

x. What are root nodules? Give their impotance

ii. What are metabolic defects? Give one example.

viii. Define genetic drift and give its effect.

viii. What are test tube babies? Discuss.

xii. What is the Ozone layer depletion?

Define Law of segregation.

viii\What are bioreactors?

vi. Define nastic movement. What is Thermonasty?

Biology (Essay Type)

Time: 2:40 Hours

Section - I

Marks: 68

2. Write short answers of any eight parts from the following.

2x8=16

2x8=16

2x6=12

- i. Differentiate between pyrexia and pyrogens.
- ii What are behavioural adoptations to regulate heat exchange between animals and environment?
- iii What are excretophores? Give an example
- v. What are collenchyma cells? Discuss.
- vii. Differentiate between Menstrual cycle and Oestrous cycle.
- ix. Differentiate between climate and weather
- xi. Differentiate between herbicides and fungicides.
- 3. Write short answers of any eight parts from the following.
- i. Write commercial application of cytokinns.
- iii. Give the role of insuline and glucagon.
- v. What do you know about gene and locus?
- vii. Write down the treatment of cancer through gene therapy.
- ix. Write two uses of PCR.
- xi. Compare population and community and give their example, xii Define ammonification and assimilation
- 4. Write short answers of any six parts from the following.
- i. How aging can be slowed down?
- iii. Give the role of mRNA and tRNA in translation.
- iv. How do histone and DNA interact with each other in nucleosome.
- v. Give two limitations of DNA polymerase III in DNA replication
- vi. How does cell death help in development of multicellular organism.
- vii. What happens during diplotene stage.
- ix. Write down the measures for the preservation of endangered species.

Section - II

	A Landard	8x3=24
NOTE	Answer any three questions from the following.	4900460000000 8 4 0
5. (a	Describe the structure and function of Nephron	4
(b	O) Compare food chain with food web.	4
	a) Discuss the machanism of repair of broken bones.	4
	How did meselson and Stahl show that DNA replication is semiconservative	4
	Describe any four functions of Gibberellins.	4
	Define pollution. Write a note on Air or Atomospheric pollution.	4
	a) Compare sexual reproduction with asexual reproduction	4
		4
	Describe the process of sex determination in plants and yeast	4
9. (a	 Write a note on the development of chick upto gastrulation stage 	4
(1	b) Discuss natural selection and artifical selection.	4

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