<u>A-437 (E/H)</u>

BIOLOGY 2017

Time: 3 Hours |

Class: 12th

M.M.: 75

Instructions:

- (i) All questions are compulsory.
- (ii) Questions paper has two sections 'A' and 'B'
- (iii) In section 'A' there are objective type questions from question no. 1 to 4 Each carries 5 marks.
- (iv) In section 'B' internal options are given from question 5 to 20.

		2 mark.	
	(vi)		short answer type word limit is Each question carries 3 marks.
	(vii)	(4.74)	long answer type word limit is Each question carries 4 marks.
	(viii)		long answer type word limit is Each question carries 5 marks.
	(ix)	Draw neat and labelled dia	gram wherever necessary.
		SECTION-A (Objective ty	ype Questions)
Q. 1.	Fill in	the blanks-	5
	(a)	Liver secretesjuice.	•
	(b)	Water absorption by using of	energy is called
	(c)	Outer membrance of pollen grain is called	
	(d)	Lichen is an example of	
	(e)	Theory of population growt	
Q. 2.	Choos	se the correct option.	5
	(a)	What will happen when a ce (1) Plasmolysis (3) Excretion	ell is kept in a hypertonic solution- (2) Osmosis (4) Evaporation
	(b)	Blood Bank of human is-	
		(1) Spleen	(2) Lungs
		(3) Heart	(4) Kidney
	(c)	Hormone Stimulating verna	lization is-
		(1) Vernalin	(2) Florizen
		(3) Abscisic acid	(4) Colchicin
	(d)	Pyramid of energy in a fore	st ecosystem is always -
		(1) Vertical	
		(2) Conical	
		(3) First vertical then conica	1
		(4) Elliptial	

Question no. 5 to 8 are very short answer type. Which has

word limit of 30 words approximately. Each question carries

(v)

	(e)	AIDS test is known as-	*			
		(1) Australian antigen	(2) Alisa			
		(3) Thyro test	(4) pH test			
Q.3.	Write	Write the answer in one word/sentence.				
	(1)	In which part of chlorop found?	olast, photosynthetic pigments a	re		
	(2)	Where do you find Gleno	oid cavity?			
	(3)	Name a total root parasiti	c plant.			
	(4)	Write botanical name of	coconut.	•		
	(5)	What is called scientific	study of human population.			
Q. 4.	Mate	ch the columns -	X			
· 3	(a) H	Ig, As	(1) Actinomycetes			
	(b)V	itamin C	(2) Alexander Fleming			
	(c) lı	nsulin	(3) Poisonous Elements			
	(d) E	Decomposer	(4) Scurvy			
	(e) A	antibiotic	(5) Diabetes			
	S	ECTION - B (Very Short a	nswer type questions)	50		
Q. 5.	Writ	te differences between Trac	hiole and bronchiole.	2		
(OR)	Nam	ne any two diseases related	to bone.			
Q. 6. (OR)	What is apomixis? What is sexual dimorphism?			2		
Q. 7.	Writ	Write any two advantages and two disadvantages of self pollinat				
Q. 7.	****			2		
(OR)	Wha	it is a test tube baby.	98	3.43		
Q. 8.		it is food chain.		2		
(OR)		e names of any four green	house gases.			
331 20		ne the following-		3		
Q. 9.	(1) (Semotic pressue (2) Suction	n pressure (3) Root pressure			
	(1) ((1) Osmotic pressue (2) Suction pressure (3) Root pressure Write one symptom each of the deficiencey of the following elements				
(OR)						
	in pl) Magnesium			
	(1)N	litrogen (2) Phosphorus (3	,			

Q. 10.	Describe in brief the structureof chloroplast.	3				
(OR)	Write any three difference between aerobic and anaerobic respira-					
	tion.					
Q. 11.	Define the following-					
	(1) Population (2) Mortality (3) Natality					
(OR)	What do you understand by Yogasana? Write it's two advantages.					
Q. 12.	What are Biopesticides? Write it's advantages & harmful effects one					
	each.					
(OR)	What are interferons? Write their significance.					
(Long answer type questions)						
Q. 13.	Write any four difference between arteries and veins.	4				
(OR)	Write any four difference between Tendon and ligaments.					
Q. 14.	Explain structure of human tooth with the help of diagram.	4				
(OR)	Explain structure of a Neuron, with diagram.					
Q. 15.	Draw a labelled diagram of T.S. of plant ovule.	4				
(OR)	What is photoperiodism? Write it's importance.					
Q. 16.	What is mimicry? Write it's types.					
(OR)	What is Biodiversity? Write any three efforts of conservating	of				
	Biodiversity.					
Q. 17.	Explain any four common problems of Adolescence.	4				
(OR)	What is Vermicompost? Write it's significance.					
	(Long answer type questions)	127				
Q. 18.	Where does Calvin cycle take place? Explain Calvin cycle by	ray				
	diagram only.					
(OR)	Explain any five factors ifluencing water absorption in plants.					
Q. 19.	Explain in reflex action with diagram.	5				
(OR)	Explain the process of digestion in human stomach.					

Q. 20.		What do you understand by ecological adaptations? Write any four		
	adaptions in plants occurring due to lack of water. 5			
	(OR)	Describe major causes, effects and control measures of water pollu-		
		tion.		
