BIOLOGY 2015

Time: 3 Hours |

Class: 12th

M. M.: 75

Instructions-(i) All questions are compulsory. (ii) There are two Sections in Question paper. 'Section-A' and 'Section-B'. (iii) In Section-A Q.Nos. 1 to 4 are objective type Questions which contain Fill in blanks, Multiple choice, one word/one sentence answer, Match the column. Each question carries 5 marks. (iv) In section 'B' there are question nos 5 to 18 Internal options are given in each question. (v) Q. Nos. 5 to 8 are very short answer type questions. Each carries 2 marks. Write answers of these questions approximately in 30 words each. (vi) Q.Nos. 9 to 13 are short answer type questions. Each carries 4 marks. Write answers of these questions approximately in 75 words each. (vii) Q:Nos. 14 to 16 are long answer type questions. Each carries 5 marks. Write answers of these questions approximately in 120 words each. (viii) Q. Nos. 17 and 18 are long answer type questions. Each carries 6 marks. Write answers of these questions approximately in 150 words each. (ix) Start answering of the objective type questions from first page of the answer sheet. (x) Draw neat and labelled diagram wherever necessary.

Section - A (Objective Type Questions)

Q.1.	Fill in the blanks-					
	(1)	NH ⁺ ₄ + 202 Nitrosomona	\rightarrow + 2H ₂ O + Energy.	•		
	(2)	The Secretion of HCl ar	d gastric Juice is controlled by			
.9		Harmone.				
	(3)	Pollination takes place by the agency of bird is called				
	(4)	Soyabean is a plant.				
	(5)	Bacterium is fo	ound in the roots of leguminous p	lants.		
Q2.	Choose the correct options and write it-					
	(a)	Night blindness is caused due to deficiency of				
	*	(i) Vitamin - C	(ii) Vitamin - A	100		
		(iii) Vitamin - D	(iv) Vitamin - E			
	(b)	Transpiration Higher among the following plant.				
		(i) Mesophytes	(ii) Hydrophytes			
		(iii) Xerophytes	(iv) Algae cells			

(iv) Algae cells

	(c)	Which of the following is not naturally occurring plant			
		hormone.			
		(i) 2, 4-D	9	(n) GA2	
		(iii) Gibbere	llin	(iv) IAA	
X. **	(d)	Term ecosyst	em was used	f far the first time by.	e: g
		(i) Tansley	9 4	(ii) Odum	14
		(iii) Ritar		(iv) Mishra and puri	
, C	(e)	Useful vaccin	nation is pro	tection from Polio, Dipl	theria and
		Tetanus.			
		(i) BCG		(ii) DPT	
		(iii) MMR		(iv) STD	•
Q3.	Answ	er in one word	lone senten	ce each.	.5
	(1)	What is net ga	ain of energy	from oxidation of one me	ole glucose
		in oxirespirat	ion and unox	irespiration.	
•	(2)	Write the two	functions o	f paricardial fluid.	
	(3)	Name any pl	lants in which	ch stem is modified int	o leaf like
	,	structure and	leaves are n	nodified into spines.	
	(4)	In which anir	nals Ranikhe	et disease occur.	
	(5)	Write any tw	o causes of	uncontrolled population	growth.
Q.4.	Matc	h the column			5
	Colı	umn – A		Column - B	
	(1) J	Lichen		Glomerulus	
	(2) I	Earthworm		Mangrove plant	
	(3) (Ultrafiltration		Papaver somniferum	
	(4) 1	Rhizophora		Cutaneous Respiration	* *
	(5)	Opium ·		Symbiotic	
	Se	ection - B (Ve	ry short Ans	wer type questions)	
Q.5.	-	Draw a labelled diagram of the cardiac muscles. 2			
(Or)	Draw	Draw a labelled diagram of the Malpighian tubules Transfer section.			
Q.6.		Draw a labelled diagram of the pollen grain. 2			
(Or)	Write	Write any two differece between Epigeal and Hypogeal Germination.			ermination.
Q.7.	Write	Write the Two types of mimicry. 2			
(Or)	Write	Write is succession, what are its type. Write any two stages.			
Q.8.	Wirte	e any two impo	ortant differe	ence between short day	plants and
	long	day plants.	10	(4) A	2
(Or)	What	t is death, Writ	te main reaso	on of death.	

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(Short Answer type Questions)

Q.9.	Write the classification of Animales on the basis of excretory				
	substance. 4				
(Or)	Write the name of excretory organs and draw a labeled diagram of				
	excretory system in humans.				
Q.10.	Write four important difference between Arobic and Anarobic				
	Respiration. 4				
(Or)	Write four main difference between Bone and Cartilage.				
Q.11.	Write only the name of male Reproductive organs and female				
	Reproductive organs of Humans. 4				
(Or)	Write only the name of different stages Mechanism of human				
	Reproduction.				
Q.12.	Write only the name of classification of the plants on the basis of				
•	temperature. 4				
(Or)	Explain the four Adaptation of xerophyte.				
Q.13.	What is Adiction and its type. Write the harmful effect of Alcohol				
	Adiction. http://www.mpboardonline.com 4				
(Or)	Explain the four causes of Adiction.				
Q.14.	Measure the rate of Transpiration with the help of Ganong's				
	potometer. 5				
(Or)	Explain the factors affecting the rate of photosynthesis.				
Q.15.	Describe the internal structure of human ear with labelled diagram. 5				
(Or)	Draw a labelled diagram of T.S. of spinal card ad describe its function.				
Q.16.	Write the four causes of water pollution and explain the control of				
	water pollution. 5				
(Or)	Write the four causes of noise pollution and explain the control of				
2 2	noise pollution.				
Q.17.	Describe the calvin cycle with Ray diagram.				
(Or)	Explain the starch-sugar interconversion hypothesis of stomatal				
	opening and closing and draw a labelled diagram.				
Q.18.	Write the Botanical names of the following 6				
•	(1) Potato (2) Brinjal				
	(3) Chilli (4) Onion				
	(5) Gram (6) Wheat				
(Or)	Write the difference between manure and Biofertilizers.				