P-446 (H/E)

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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 and gastric Juice is controlled by				
		Harmone.				
	(3)	Pollination takes place by the agency of bird is called				
	(4)	Soyabean is a plant.				
	(5)	Bacterium is found in the roots of leguminous plants				
Q2.	Choose the correct options and write it-					
	(a)	Night blindness is caused due to deficiency of				
		(i) Vitamin - C	(ii) Vitamin - A			
		(iii) Vitamin - D	(iv) Vitamin - E			
	(b)	Transpiration Higher among the following plant.				
		(i) Mesophytes	(ii) Hydrophytes			
		(iii) Xeronhytes	(iv) Algae cells			

	(c)	Which of the following is not naturally occurring plant				
		hormone.				
		(i) 2, 4-D	(n) GA2			
		(iii) Gibbero	ellin (iv) IAA			
	(d)	tem was used far the first time by.				
		(i) Tansley	(ii) Odum			
		(iii) Ritar	(iv) Mishra and puri			
	(e)	Useful vacci	nation is protection from Polio, Diphtheria and			
		Tetanus.				
	,	(i) BCG	(ii) DPT			
		(iii) MMR	(iv) STD			
Q3.	Answ	ver in one wor	d/one sentence each. 5			
	(1)	What is net g	ain of energy from oxidation of one mole glucose			
-	in oxirespiration and unoxirespiration.(2) Write the two functions of paricardial fluid.					
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	(3)	Name any p	plants in which stem is modified into leaf like			
	structure and leaves are modified into spines.					
	(4)	In which ani	mals Ranikhet disease occur.			
•	(5)	Write any tv	vo causes of uncontrolled population growth.			
Q.4.	Match the column 5					
	Colu	umn – A	Column - B			
	(1) Lichen		Glomerulus			
	(2) I	Earthworm	Mangrove plant			
	(3) Ultrafiltration		Papaver somniferum			
	(4) Rhizophora		Cutaneous Respiration			
	(5)	Opium ·	Symbiotic			
	Se	ection - B (Ve	ery short Answer type questions)			
Q.5.	Draw a labelled diagram of the cardiac muscles. 2					
(Or)	Draw a labelled diagram of the Malpighian tubules Transfer section.					
Q.6.	Draw a labelled diagram of the pollen grain. 2					
(Or)	Write any two differece between Epigeal and Hypogeal Germination.					
Q.7.	Write the Two types of mimicry. 2					
(Or)	Write is succession, what are its type. Write any two stages.					
Q.8.	Wirte any two important difference between short day plants and					
	long	day plants.	2			
(Or)	What	What is death. Write main reason 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				
	noise pollution.				
Q.17.	Describe the calvin cycle with Ray diagram.				
(Or)	Explain the starch-sugar interconversion hypothesis of stomata				
	opening and closing and draw a labelled diagram.				
Q.18.	Write the Botanical names of the following				
`	(1) Potato (2) Brinjal				
	(3) Chilli (4) Onion				
	(5) Gram (6) Wheat				
(Or)	Write the difference between manure and Biofertilizers.				
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