NBSE Class 12 Biology Previous Year Question Paper 2016

Total number of printed pages : 3

2016 **BIOLOGY**

Total marks : 70

1.

2.

3.

4.

General instructions:

- Approximately 15 minutes is allotted to read the question paper and revise the i) answers.
- All questions are compulsory. Marks are indicated against each question. ii)
- iii) The question paper consists of two parts Part A and Part B. Each part contain 14 questions.
- iv) Internal choice has been provided in some questions.
- v) Write the answers of Part A and Part B in separate answer books. Marks shall not be awarded if the answers of both the Parts are written in one book nor marks awarded if answers of Part A are written in the answer book of Part B and vice-versa.

N.B: Check that all pages of the question paper is complete as indicated on the top left side.

PART - A

Vegetative propagation by leaves is found in which of the following plant?					
(a)	Oxalis	(b)	Pineapple		
(c)	Bryophyllum	(d)	Mint		
			-3°		
Reg	ion of a gene that contain the informatio	n neo	cessary to form a protein is	1	
(a)	Promoter gene	(b)	Inducer		
(c)	Intron	(d)	Exon		
	process of breeding crops with higher le	evels	of vitamins and minerals is		
refe	red to			1	
(a)	Nutritional quality	(b)	Biofortification		
(c)	Biological magnification	(d)	Mineralization		
Eutr	Eutrophication leads to the death of fishes due to				
(a)	Increased O ₂ content	(b)	Increased algal content		
(c)	Decreased O ₂ content	(d)	Decreased algal content		

(b) Endodermis

- 5. The innermost layer of anther wall is called
 - Epidermis (a)
 - Endothecium (c) (d) Tapetum

Time : 3 hours

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1

1

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6.	The process of fertilization in flowering plants is referred to as double fertilization. Give reason.		
7.	Define hotspot. What are the criteria for determining a hotspot?		
8.	What is acid rain? Mention its one effect.		
9.	Draw a neat labelled diagram of a matured embryosac.		
10.	 a. Differentiate between Deoxyribonucleic acid and Ribonucleic acid. Or b. Distinguish between leading and lagging strands of DNA replication. 	3	
11.	Mention the basic methods used for micro propagation.		
12.	 a. What is transcription? Explain the process of transcription. Or b. What is Operon? Explain the working principle of Lac Operon. 		
13.	 a. Explain the tools needed for genetic engineering. Or b. Explain the various steps involved in rDNA technique. 	5	
14.	 a. Describe the various stages of succession in aquatic environment. Or b. What is noise pollution? Give a detail account of the sources and effects of noise pollution. 		
	PART –B		
1.	The sperm gets mature in(a) Testes(b) Leydig cell(c) Epididymis(d) Vasdeferens	1	
2.	Which of the following is an IUCD?(a) Copper T(b) Oral pills(c) Diaphragm(d) Tubectomy	1	

- 3. Lamarckism was based on
 - (a) Natural selection
 - (c) Inheritance of acquired character
- (b) Survival of the fittest

1

(d) Mutation

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4.	Humoral immune response is performed by(a) Lymph nodes(b) B-lymphocyte(c) T-lymphocyte(d) Spleen	1				
5.	Another term for cold blooded animal is(a) Endotherm(b) Ectotherm(c) Homoiotherm(d) Thermoregulator	1				
6.	What are the symptoms of Klinefelter's syndrome? 2					
7.	How do anaerobic sludge digesters help?					
8.	What is insulin? Mention its functions.					
9.	What is sex-linked inheritance? Explain the inheritance of colour blindness in the offsprings, if a carrier female marries a normal male.					
10.	 a. What is biopiracy? How are industrialized nations exploiting the bioresources? Or b. What are biofertilisers? Mention any two advantages of biofertilisers. 					
11.						
12.	 a. Explain the process of fertilization with diagram. Or b. What is meant by STD's? Explain four such diseases. 	5				
13.	 a. Explain Mendel's law of independent assortment with the hybrid cross of pea plant. Or b. Describe the Miller's and Urey's experiment for organic synthesis. Draw a neat labelled diagram of the apparatus set up by them. 					
14.	 a. What is a pathogen? Describe the disease caused by female <i>Anopheles</i> mosquito. Or b. Explain the causes, signs, symptoms, mode of transmission of HIV/AIDS and measures to prevent it. 	5				

(3)
