

Question Paper - II Subject-Biology, Std. – 12th



Marks: 70 Time: 3 Hrs

General Instructions:

- 1. Sections A: Q. No. 1 contains 10 multiple choice questions carrying one mark each
- Q. No. 2 contains 8 very short answer type questions carrying one mark each
- 2. **Section B:** Q. No. 3 to Q. No. 14 are **12** short answer-I type questions **carrying two marks** each. Attempt any **eight** questions.
- **3. Section C:** Q. No. 15 to Q. No. 26 are **12** short answer-II type questions carrying **three marks** each. Attempt any **eight** questions.
- **4. Section D**: Q. No 27 to Q. No. 31 are **5** long answer type questions carrying **four mark** Attempt any **three** questions.

	Attempt any three questions.	
0.1	SECTION A	
Q.1.	Select and write correct answer:	1
1.	In angiosperms, triple fusion results in the formation of A) Primary endosperm nucleus B) Zygotic nucleus	1
	C) Secondary nucleus D) polar nucleus	
2.	In colour blindness, a person is unable to distinguish between red and green colours as	1
۷.	both the colours appear	1
	A) white B) black C) yellow D) grey—	
3.	Failure of testis to descend from abdomen into scrotum leads to sterility called	1
٥.	A) atresia B) Cryptorchidism C) gastrulation D) amniocentesis	1
4.	Theory of mutation was given by	1
	A) Darwin B) Hugo de varies C) J.B.S.Haldane D) Mendel	•
5.	Gibberllin was synthesized from	1
٥.	A) Gibberellin fujikuroi B) gelidium C) Gracilaria D) Aspergillums	•
6.	Blood pressure is measured with the help of instrument called	1
	_A) ammeter B) sphygmanometer C) ECG D) stethoscope	
7.	Adrenocorticotropic is a hormone of	1
	A) pituitary B) adrenal cortex C) thyroid D) adrenal medulla	
8.	Of the total incident solar radiation, less than % of it is photosythetically	1
	active radiation (PAR)	
	A) 80 B) 50 C) 20 D) 5	
9.	In a plant cell, the shrinking of protoplasm is called	1
	A) turgidity B) flaccidity C) DE plasmolysis D) plasmolysis	
10.	The central dogma of protein synthesis is	1
	A) DNA $\xrightarrow{Translation}$ mRNA $\xrightarrow{Transcription}$ protein	
	B) DNA $\xrightarrow{Transcription}$ mRNA $\xrightarrow{Translation}$ protein	
	Reolication Transcription	
	(C) RNA \longrightarrow 1)NA \longrightarrow protein	
	D) RNA $\xrightarrow{Transcription}$ mRNA $\xrightarrow{Translation}$ protein	
Q.2	Answer the following:	
1.	Name the components of ecosystem.	1
2.	Organic evolution	1
3.	What is amniocentesis?	1
4.	What is crossing over?	1
5.	What are immunoglobulins?	1



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6.	Give the full form of IAA.	1	
7.	What is bio fortification?	1	
8.	Give symptoms of the disease caused by hypo secretion of ADH.	1	
SECTION B			
Q.3	Write a short note on : parthenocarpy	2	
Q.4	Distinguish between: Homozygous and Heterozygous	2	
Q.5	Define or explain the term : Plasmolysis	2 2 2 2 2 2 2 2 2 2 2 2 2	
Q.6	Write a note on Genetic drift	2	
Q.7	What is colostrum?	2	
Q.8	Give the scientific name of microorganisms used as a source of SCP.	2	
Q.9	How are minerals absorbed by plants?	2	
Q.10	Why restriction enzymes are called as molecular scissors?	2	
Q.11.	In the ecosystem, the energy flow is unidirectional. Give reason.	2	
Q.12.	What can we do to protect biodiversity?	2	
Q.13.	Give reason: Closed circulation is more efficient than open circulation.	2	
Q.14.	What is the role of limbic system?	2	
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	SECTION C		
	Attempt Any Eight		
Q.15.	Compare <u>-</u> X-chromosome and Y- chromosome.	3	
Q.16.	Explain movement of water in the root.	3	
Q.17.	Describe the process of double fertilization.	3	
Q.18.	Name two types of particulate pollutants found in air. Add a note on ill effects of same on human health.	3	
Q.19.	Explain the external genitalia of men detail.	3	
Q.20.	Write a note on: Vestigial organs.	3	
Q.21.	Explain the difference: Inborn immunity and Acquired immunity.	3	
Q.22.	Give economic importance of fishery.	3	
Q.23.	Write short notes: DNA packaging in Eukaryotic cell.	3	
Q.24	Describe the structure of the wall of the Heart.	3	
Q.25	Describe the three meninges that form the protective covering of brain	3	
Q.26	Enlist and explain the important characteristics of a population.	3	
	SECTION D		
	Attempt Any Three:		
Q.27	Describe in detail the three main parts of forebrain	4	
Q.28.	Explain the histological structure of ovary in human.	4	
	OR		
	Write a short note on: Development of ovary.		
Q.29.	With the help of neat labeled diagram, describe the conducting system of the human heart	. 4	
Q.30.	What is colour blindness? Explain the inheritance with the help of suitable chart.	4	
Q.31.	Describe the development of seed and fruit.	4	