Model Question Paper

Class-XI (Regular) (Session: 2020-21)

Subject-Biology

Time Allowed: 3 hrs			Maxim	um Marks: 60		
Not	e:					
(i)	Que	estion nos 1-5 are of 1 m	ark each.			
(ii)	Questions nos 6-11 are of 1½ mark each.					
(iii)	Questions nos 12-15 are of 2 mark each.					
(iv)	Question nos 16-23 are 2½ mark each.					
(v)	Que	estion nos 24-25 are of 3	mark each.			
(vi)	Que	estion nos 26-28 are of 4	mark each.			
Oth	er in	structions are same				
•	Que	estions are PISA based qu	lestions.			
		Section	on-A	1 Mark each		
MC	Q:					
1.	A group of organisms having similar traits of any rank is: 1					
	(a)	Species	(b) Taxon			
	(c)	Genus	(d) Order			
2.	Aest	tivation is:-		1		
	(a)	Arrangement of flower	(b) Arrangement of l	eaf		
	(c)	Arrangement of sepals or petals	(d) All the above			
3.	The organelle called 'suicidal bags' of cell:-					
	(a)	Mitochondria	(b) Ribosomes			

	(c) Lysosomes	(d) Golgi apparatus		
4.	. Glycolysis occurs in:-		1	
	(a) Mitochondria	(b) Nucleus		
	(c) Chloroplast	(d) Cytoplasm		
5.	. Main function of Henles loop is		1	
	(a) Formation of urine	(b) Passage of urine		
	(c) Conservation of water	(d) Filteration of blood		
	Section	n-B 1½ Mark eac	h	
6.	. List the main functions of Musc	ele tissue.	/2	
		Or		
	List the main functions of cor	innective tissue.		
7.	. What is vital capacity of lung	? What are its significance. 11/2	/2	
8.	. Examine the figure:-			
	(a) Is this structure present in a	nimal cell		
	or plant cell?	1 P P C	2)	
	(b) Can there be passed	into the		
	progeny?		34	
	(c) Name the metabolic process	ses taking)	
	place in part (1) and (2).			
9.	Differentiate between Racemose	e and Cymose inflorescence. 1 ¹ /	2	
	C)r		
	Differentiate between epigyno	ous and hypogynous flower.		
10.	Why mitosis is called equational	division?	2	
11.	Give functions of ribosomes.	11/2	2	
12.	Why bryophytes are known as	s amphibians of plant kingdom? 2	2	
		2		

		Ol	
	What is closed circul	atory system? What is its significance.	
13.	Give four important g	eneral characters of Phylum-Arthropoda.	. 2
		Or	
	Give four important g	eneral characters of Phylum-Coelenterata	ì.
14.			
15.			
		Section-C	
16.	Write the Physiologi	cal effects of Gibberellins.	$2\frac{1}{2}$
17.	Match the following		
	(a) Eosinophils	(i) Coagulation	
	(b) RBC	(ii) Universal Recipient	
	(c) AB group	(iii) Resist Infections	
	(d) Platelets	(iv) Gas transport	
	(e) Systole	(v) Contraction of heart	$2\frac{1}{2}$
18.	Give technical descrip	tion, floral formula and floral diagram of I	amily
	solanaceae.		$2\frac{1}{2}$
19.	Differentiate between	Mitosis and Meiosis.	21/2
		Or	
		n plant cell and animal cell.	
20.		Explain the nature of enzymatic action	n and
	properties.		$2\frac{1}{2}$
21.	Give schematic represe		$2\frac{1}{2}$
22.	Draw a well labelled di	agram of internal structure of human hea	rt.

	Exp	plain the mechanism of ultrafiltration.	1/2		
23.	(a)	Give schematic representation of C ₃ cycle.			
		Give one difference between Actinomorphic and zygomorp	hi		
			1/2		
24.	Wh	hat is aestivation of flower? Explain with diagram of its different types			
25.			3		
		Section-D			
26.	Def	ine Photophosphorylation. Explain non-cyclic photophosphory	/la		
		a. How it differ from cyclic photophosphorylation? $1+2+1=$			
27.	(a)	Explain the mechanism of transmission of nerve impulse throu	ıgł		
		aptic-deft.	_		
	(b)	Give main function of Thyroxine Hormone. 3+1=	4		
		Or			
	(a)	Explain the mechanism of Hormone action in humans.			
	(b)	Give main role of diaphragm in breathing.			
28.	(a)	What is Rubisco? Define Blackmann's law of limiting factors.			
	(b)	If a green plant is placed in air free of O ₂ , would it live longer	in		
		light or darkness? Explain.			
	(c)	Differentiate between apacarpous and syncarpous ovary.			
		2+1+1=	4		