Model Question Paper

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

Subject-Biology

I In	ie A	llowed: 3 hrs	Max	imum Marks: 60
Not	e:			
(i)	Que	estion nos 1-5 are of 1 m	nark each.	
(ii)	Que	estions nos 6-11 are of 1	½ mark each.	
(iii)	Que	estions nos 12-15 are of	2 mark each.	
(iv)	Que	estion 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 q	uestions.	
		Secti	on-A	1 Mark each
MC	Q:			
1.	A g	roup of organisms havin	g similar traits of a	any rank is: 1
	(a)	Species	(b) Taxon	
	(c)	Genus	(d) Order	
2.	Aes	tivation is:-		1
	(a)	Arrangement of flower	(b) Arrangement	ofleaf
	(c)	Arrangement of sepals or petals	(d) All the above	
3.	The organelle called 'suicidal bags' of cell:-			1
	(a)	Mitochondria	(b) Ribosomes	

	(c) Lysosomes (d) Golgi apparatus	
4.	Glycolysis occurs in:-	
	(a) Mitochondria (b) Nucleus	
	(c) Chloroplast (d) Cytoplasm	
5.	Main function of Henles loop is	
	(a) Formation of urine (b) Passage of urine	
	(c) Conservation of water (d) Filteration of blood	
	Section-B 1½ Mark each	
6.	List the main functions of Muscle tissue. 1½	
	Or	
	List the main functions of connnective tissue.	
7.	What is vital capacity of lung? What are its significance. 11/2	
8.	Examine the figure:- 1½	
	(a) Is this structure present in animal cell	
	or plant cell?	
	(b) Can there be passed into the	
	progeny?	
	(c) Name the metabolic processes taking	
	place in part (1) and (2).	
9.	Differentiate between Racemose and Cymose inflorescence. 1½	
	Or	
	Differentiate between epigynous and hypogynous flower.	
10.	Why mitosis is called equational division? 11/2	
11.	Give functions of ribosomes. 1½	
12.	Why bryophytes are known as amphibians of plant kingdom? 2	
	0	

			Or	
	Wh	at is closed circulator	y system? What is its significance.	
13.	Giv	e four important gene	ral characters of Phylum-Arthropoda.	2
			Or	
	Giv	e four important gene	ral characters of Phylum-Coelenterata	
14.	Def	fine Alternation of gen	neration? Explain the diplontic life cy	cle. 2
15.		w well labelled diagra		2
			Section-C	
16.	Wr	ite the Physiological	effects of Gibberellins.	21/2
17.	Ma	tch 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	21/2
18.	Giv	e technical description	, floral <mark>formula and floral diagram of F</mark>	amily
	sola	naceae.		21/2
19.	Diff	erentiate between Mit	osis and Meiosis.	21/2
			Or	
	Diff	erentiate between pla	ant cell and animal cell.	
20.	Wha	at are Enzymes? Exp	plain the nature of enzymatic action	n and
	prop	perties.		21/2
21.	Give	e schematic representa	tion of Glycosis.	21/2
22.	Drav	wa well labelled diagr	am of internal structure of human hear	t.
			Or	
			0	

	Exp	plain the mechanism of ultrafiltration.	21/2	
23.	(a)	Give schematic representation of C ₃ cycle.		
	(b)		ygomorphic	
		symmetry in flower.	21/2	
24.	Wh	nat is aestivation of flower? Explain with diagram of its did	ferent types.	
25.	Exp	plain the mechanism of muscle contraction in brief.	3	
		Section-D		
26.	Det	fine Photophosphorylation. Explain non-cyclic photop	hosphoryla-	
	tion	n. How it differ from cyclic photophosphorylation?	1+2+1=4	
27.	(a)	Explain the mechanism of transmission of nerve impu	alse through	
	syn	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 O2, would it live longer in		
		light or darkness? Explain.		
	(c)	Differentiate between apacarpous and syncarpous ov	ary.	
			2+1+1=4	