## ANNUAL EVALUATION, MARCH-2021-22 ANSWER KEY STD IX BIOLOGY(ENG MED)

QNO	VALUE POIN	ГS		SCORE	TOT
1	c) Chlorophyll			1	1
2	Peristalsis			1	1
3	Pulmonary vein, Vein		1/2 + 1/2	1	
4	i) Lactic acid			1	1
5	b) The light ph	hase takes place in grana		1	1
6	Ribs- 24 bones				1
7	a) The plasma	nembrane invagi	nates at the centre of the cell.	1	1
8	Prophase	Spindle fibres a	re formed		
	Metaphase	Chromosomes are arranged at the centre of the cell		4 X ½	2
	Anaphase	Daughter chrom	osomes are formed		
	Telophase				
9	i) The walls of the alveoli and capillaries are O 2 made up of a single layer of cells ii) The inner wall of the alveolus is always kept moist iii) They are surrounded by numerous blood capillaries. <b>(ANY TWO)</b>		1+1	2	
	iii) They are su	rrounded by num	erous blood capillaries. <b>(ANY TWO)</b>		
10	A) X= Hepatic b) Certain vein	portal vein, Y= H	Iepatic vein heart and they carry blood from	1	2
	A) X= Hepatic b) Certain vein	portal vein, Y= H s do not reach the	Iepatic vein heart and they carry blood from		2
	A) X= Hepatic b) Certain vein organ to organ. Inspiration	portal vein, Y= H s do not reach the	Iepatic vein heart and they carry blood from alled portal veins		
	A) X= Hepatic b) Certain vein organ to organ. Inspiration Volume of the	portal vein, Y= H s do not reach the Such veins are ca thoracic cavity	Iepatic vein heart and they carry blood from alled portal veins Expiration		2
10 11 12	A) X= Hepatic b) Certain vein organ to organ. Inspiration Volume of the increases Diaphragm con	portal vein, Y= H s do not reach the Such veins are ca thoracic cavity	Image: A state of the stat		
11	<ul> <li>A) X= Hepatic</li> <li>b) Certain vein organ to organ.</li> <li>Inspiration</li> <li>Volume of the increases</li> <li>Diaphragm con</li> <li>a) i) Trypsin, S</li> <li>c) Fat</li> <li>a) X= Dentine,</li> <li>b) Dentine: Live</li> <li>Pulp: Soft control</li> </ul>	portal vein, Y= H s do not reach the Such veins are ca thoracic cavity ntracts ecreted by Pancre Pancreation Y= Pulp ing tissue which	Image: Section allow of the section allo		2
11	<ul> <li>A) X= Hepatic</li> <li>b) Certain vein organ to organ.</li> <li>Inspiration</li> <li>Volume of the increases</li> <li>Diaphragm con</li> <li>a) i) Trypsin, S</li> <li>c) Fat</li> <li>a) X= Dentine,</li> <li>b) Dentine: Livy Pulp: Soft conrelymph ducts an</li> <li>a) 120 is indice</li> <li>Pressure</li> <li>b) Hypertension</li> </ul>	portal vein, Y= H s do not reach the Such veins are ca thoracic cavity ntracts ecreted by Pancre Pancreation Y= Pulp ing tissue which ective tissue seen d nerve fibres are ated as Systolic P	Image: Section allowed and they carry blood from allowed portal veins   Expiration   intercostal muscles relax   pressure in the thoracic cavity increases   as   clipase   Fatty acid + Glycerol   forms the tooth,    forms the tooth,    in the pulp cavity. Blood vessels,    also seen.   ressure,80 is indicated as Diastolic		2

16	In males, after meiosis, four sperms having 23 chromosomes are formed from a single germinal cell. But in females, only a single ovum is formed from one germinal cell. Four Polar bodies being sterile get destroyed i n females.	2	2
17	<ul> <li>i) Touch(Thigmotropism)iii) Climbers grow towards and around support.</li> <li>ii) chemicals(Chemotropism)iv) Pollen tube grows towards the ovary</li> </ul>	1 + 1	2
18	i) Contractile vacuole (ii) Ammonia iii) kidneys. (iv) Urea v) Nephridia vi) urea, ammonia, water	6 X ½	3
19	a) Fat b) Sucrose d) Fructose	3 X 1	3
20	X= Apical Meristem, Y = Lateral meristem <b>Apical Meristem</b> : Helps to increase the length of root and stem. <b>Lateral meristem</b> : Helps to increase the girth of stem and root. Seen only in dicot plants.		3
21	i) Cytoplasm ii) Mitochondria iii) No need of Oxygen iv) Oxygen required v) Glucose vi) Carbon dioxide, water 28 TP		3
22	a) Villus b) X= Lacteal c) Fatty acid and glycerol are absorbed into the lymph of lacteal.		3
23	<ul> <li>a) Heparin is added to prevent clotting of blood</li> <li>b) due to the difference in the diameters of afferent vessel and efferent vessel</li> <li>c) Avoiding urination for a long time prevents the expulsion of bacteria that may be present in the urinary tract and urinary bladder. This causes infection in the inner membrane of the urinary bladder.</li> </ul>		3
24	<ul><li>i) Converts protein to peptones partially</li><li>ii) Destroys germs in the food. Regulates pH suitable for the digestion in stomach.</li><li>Iii) Mucus</li></ul>	1 1 1	3
25	a) Chloroplast	3	4
26	a) Double circulation	1	
_ ,	<ul><li>b) Systemic circulation, Pulmonary circulation</li><li>c) Systemic circulation starts from the left ventricle and ends in the right atrium. The circulation which starts from the right ventricle and ends in the left atrium is called pulmonary circulation.</li></ul>	1 2	4



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