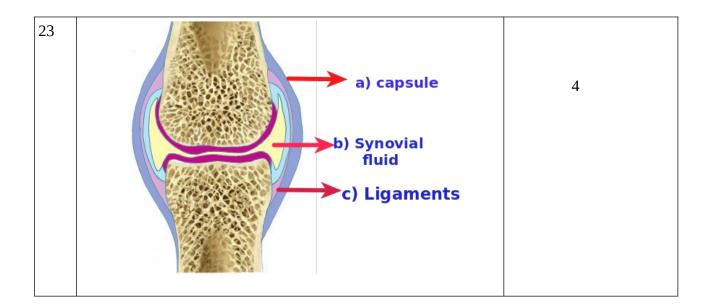
## ANNUAL EVALUATION 2019-2020 BIOLOGY (ENGLISH MEDIUM) CLASS- 9

QN	ANSWER		SCORE		
1	C) During Photosynthesis Oxyge Water molecule	1			
2	a) Pulmonary artery b) Left Atr	1/2+1/2= 1			
3	Glucose, Amino acid	1/2+1/2= 1			
4	Insect- malphigian tubule-Uric A	1			
5	b) Paramecium- Cilia	1			
6	Intercalary meristem	Intercalary meristem			
7	(i) Amino acids (ii) Blood (iii) simple diffusion. (iv) Lacteal		½X4= 2		
8	a) Globulin b)Fibrinogen c) R d) Plays a major role in the coag	½X4=2			
9	a) Muscle Fatigue b) Lactic Ac c) This increases acidity in musc action of many enzymes associat	<sup>1</sup> / <sub>2</sub> + <sup>1</sup> / <sub>2</sub> = 1 1			
10	a) Interphase b) Number of cell cytoplasm increases , Cell size ir duplicates.	2			
11	Haptotropism, Chemotropism, movement	½X4=2			
12	a) Rheumatic Arthritis b) Sprain c) Osteoporosis d) M	½X4=2			
13	They are surrounded by numerou wall of the alveoli is always kept and capillaries are made up of a	2			
14	<ul><li>a) make involuntary movements possible. No striations.</li><li>spindle shaped cells.</li><li>b) make involuntary movements possible., branched cells, striations are seen.</li></ul>		3		
15	<ul> <li>Heart:- Increases blood circulation through out the body.</li> <li>Cardiac muscles become strong.</li> <li>Lungs:- Exchange of respiratory gases becomes more effective.</li> <li>Vital capacity increases.</li> <li>Muscles:- More capillaries are formed in muscles.</li> <li>Increases the efficiency of muscles.</li> </ul>		3		
16	Glycolysis	Krebs cycle			
	Glucose is converted to pyruvic acid	pyruvic acid is converted to carbon dioxide and water	3		
	2 ATP molecules are produced. Takes place in mitochondria		_		
17	a) Cytokinesis b) X=Small ves				

	daughter nuclei. Y= cell plate c) No cell plate formation in Animal cells.			3
18	a) Girth is increased in Mango tree is due to the presence o Lateral Meristems. It is absent in monocot plant like cocor tree.			1
	b) Animals grow only up to a certain stage. But plant grow through out their life. Animals have no specialised growing regions like meristems as in plants.			2
19	Pivot joints	Movement is possible in all directions	The point where the first vertebra joins with the skull	1
	Ball and socket joint	The spherical end of one bone is fixed in the cup like pit of the other	Shoulder joint	1
	Hinge joint	Movement is possible in one direction only	Elbow and knee joint	1
20	<ul> <li>a) A=Metaphase B= Anaphase</li> <li>b) Changes that take place in chromatids.</li> <li>Formation of daughter chromosomes.</li> <li>c) Telophase. Formation of daughter nuclei. Number of daughter nuclei. Number of chromosomes in each daughter nucleus.</li> </ul>			3
21	<ul> <li>a) Meiosis</li> <li>b) X= 23</li> <li>c) Y=Polar bodies</li> <li>d) Through meiosis that the chromosome number is maintained constant even after generations</li> </ul>			4
22	<ul> <li>a) The rate of life activities are less in plants when compared to animals. Hence, the quantity of waste materials in plants are also less</li> <li>b) Stomata, Lenticel Expel photosynthetic byproduct oxygen and respiratory byproducts carbon dioxide and water.</li> <li>Hydathodes:-In certain grasses andshrubs, excess water is eliminated through smallpores present at the tip ofleaves called</li> </ul>			4
	<ul> <li>hydathodes.</li> <li>Formation of heartwood: Some waste materials get ccumulated in the older xylem vessels present at the centre of the tree trunk and play a major role in the formation of heart wood.</li> <li>Abscission of leaves: When leaves are about to fall, plants absorb all useful materials from them. Falling leaves contain mostly waste materials. (Any three)</li> </ul>			



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