INDIAN SCHOOL MUSCAT

FIRST TERM EXAMINATION

SEPTEMBER 2018

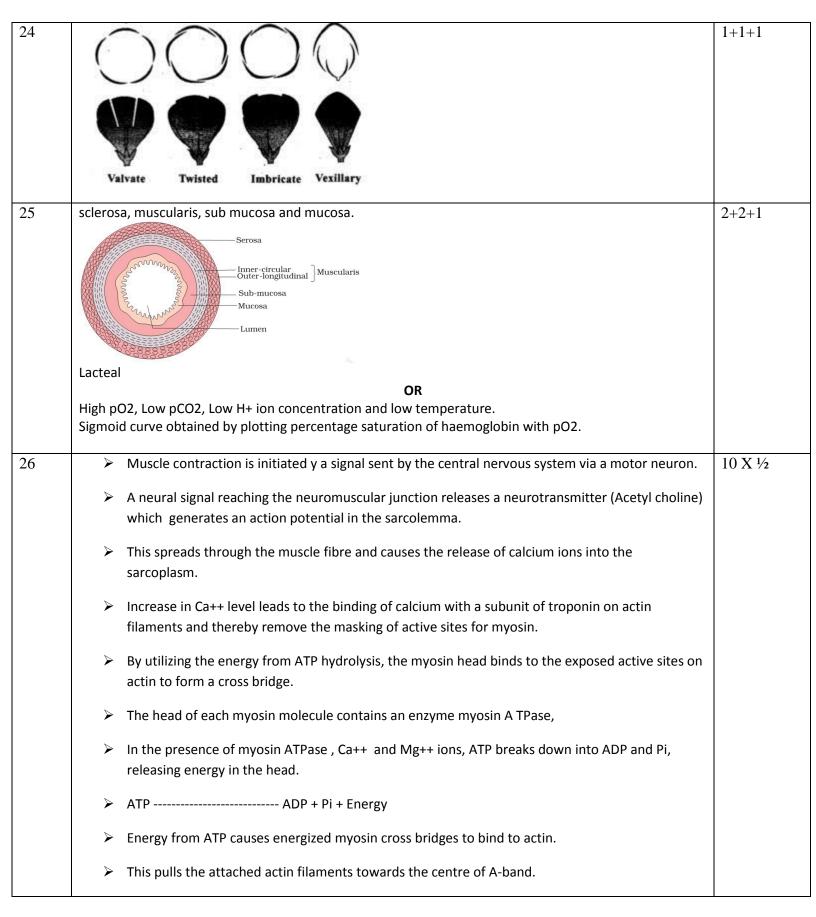
CLASS XI

Marking Scheme – BIOLOGY [THEORY]

SET B

Q.NO.	Answers	Marks (with split up)
1	Bilirubin and bilivirdin	$\frac{1}{2} + \frac{1}{2}$
2	They contain plenty of mitochondira and high myoglobin content.	1
3	Hormones secreted by adrenal medulla.	1
4	Mode of arrangement of leaves on a stem	1
5	It has two articulation surfaces on its dorsal end.	
6	Spirometer. It helps in clinical assessment of pulmonary functions.	1+1
7	Erythroblastosis foetalis.	
	It can be avoided by administering anti-Rh antibodies, immediately after first delivery.	
8	Those animals which excrete their nitrogenous wastes mainly in the form of ammonia .	1+1
	eg., bodyfishes, aquatic invertebrates etc.	
9	The three tiny bones in the middle ear.	½ X 4
	Malleus, incus, stapes	
	OR	
	The ribs which are attached dorsally to the respective thoracic vertebrae and ventrally to the strnum	
	with the help of hyaline cartilage are true ribs.	1+1
	There are 7 pairs.	
10	The resting membrane is impermeable to the negatively charged proteins of the axoplasm. For every two	1+1
	potassium ions coming in, three sodium actively pumped out.	1/ 77 4
11	Pars distalis and pars intermedia. Any two hormones .	½ X 4
12	Reticulate- veinlets form a network	1+1
10	Parallel- veins are parallel to each other.	1/ 37 5
13	MATURE CELLS	½ X 5
		1/
	S S S S S S S S S S S S S S S S S S S	1/2 -
	HANN THE PROPERTY OF THE PARTY	NEATNESS
	HOOT HAIR ZON	
	REGION OF ROOT HAIR	
	ELONGATION	
	GROWING	
	POINT (MERISTEMATIC ZONE)	

		1
14	InferiorDorsal Aorta	½ X 6
	Vena Cava	
	Right Kidney————————————————————————————————————	
	1 Left Kidney	
	Ureter	
	Urinary Bladder———————————————————————————————————	
	Urethra Sphincter Muscle	
	Dearnosis from Searnosis acom Searno	
15	Pivot	1+1+1
	fibrous	
	cartilagenous	
16	synaptic knob of axon terminals, neuro transmitters, stimulate post synaptic membrane to conduct the	1+1+1
	action potential.	
	OR	
	Pons, medulla and cerebellum.	
	rons, medula and cerebellum.	
17	Roots that vertically grow in marshy plants.	1+1+1
	Helps in respiration.	
	Rhizophora	
18	Non nutrient chemicals that act as intercellular messengers and are secreted in small quantities.	1+1+1
	Mammalian hormones	
	Name the difference Property Endocrine Exocrine	
	between the endocrine and exocrine glands	
	Secretion process into the blood	
	Secretes Secretes	
	hormones enzymes	
19	a) The theracis chamber is formed descally by the vertebral column, ventrally by sternum, laterally	2+1
17	a) The thoracic chamber is formed dorsally by the vertebral column, ventrally by sternum, laterally by the ribs and on the lower side by the dome-shaped diaphragm.	<u>∠</u> ⊤1
	b) It is necessary because any change in the volume of thoracic cavity will be reflected in the	
	pulmonary cavity.	
20	Rachis, Midrib, compound/pinnately compound	1+1+1
21	Flow of deoxygenated blood from the right ventricle to the lungs and the flow of oxygenated blood from	1+1+1
	the lungs to the left atrium is pulmonary circulation.	
	systemic circulation is the flow of oxygenated blood from the left ventricle to all parts of the body except	
	lungs and the flow of deoxygenated blood from all parts of the body to the right atrium.	
	left ventricle pumps blood to all parts of the body while right ventricle pumps it only to the lungs, which	
	are nearer to it, left ventricle has to exert more pressure and has thicker walls than right ventricle.	
22	Parathormone. It increases calcium level in blood. TCT	1+1+1
23	peptic or chief cells which secrete the proenzyme pepsinogen	1+1+1
	parietal or oxyntic cells which secrete HCl and intrinsic factor.	



	➤ The -line attached to these actins are also pulled inwards, thereby causing a shortening of the sarcomeres. That is Contraction.	
	The ADP and Pi released from myosin goes back to its relaxed state.	
	Now a new ATP binds and the cross bridge is broken.	
	 The ATP is again hydrolysed by the myosin head and the cycle of cross bridge formation and breakage is repeated causing further sliding. The process continues till the ca++ions are pumped back to the sacoplasmic cisternae resulting in the masking of actin filaments. This causes the return of Z-lines back to their original position, Relaxation. 	
	OR	
	Unipolar – embryonic stage, bipolar - retina and multipolar-CNS	
	Electrical and chemical which has a synaptic cleft.	3+2
27	Flower is a modified shoot. Sepals, petals, stamens and carpels with explanation. \mathbf{OR}	5 X 1
	Leaf, Petiole, stilt roots,rhizome, leaf	