## HALF YEARLY EXAMINATION

SET A

## SEPTEMBER 2019

## **CLASS XI**

## Marking Scheme –BIOLOGY -044 [THEORY]

Q.NO.	Answers
1.	Rugae – 1m
2.	Presence of hemoglobin – 1m OR fish – 1m
3.	Epithelial cells of Bowman's capsule. – 1m
	OR
	a) Atrial Natriuretic Factor b) Glomerular Filtration Rate. ½ + ½ m
4.	The globular head 1m
5.	Glycogen concentration decreases 1m
6.	Primary bronchus→secondary bronchus→tertiary bronchi→initial bronchiole→Terminal bronchiole. 4X ½
7.	Bp remain 140/90 for long time. Brain and Kidney. 1m; ½ + ½ m
	OR
	Hepatic portal system/ supplies nutrients to liver. 1+1m
8.	Glycosuria – presence of glucose in urine; ketonuria- presence of ketone bodies in the urine. 1+1
	OR
0	a) Nephria b) flame cells c) protonephridia d) kidney 4X ½ A-iv ;B-ii ; C- i ; D-iii
9. 10.	Pituitary hormone regulating function of gonads in male and female. FSH and LH 1+ 1
11.	Respiratory roots; Rhizophora; Storage: carrot/or any other relevant
11.	OR
	Fruit wall; epicarp/mesocarp/endocarp ½ X 4
12.	a) Xylem parenchyma b) phloem fibres c) sieve tubes and companion cells 4x ½
13.	Bile- emulsification of fats/ lipase activation; entericus – trypsinogen activation. 2+1
14.	Inspiration and exspiration ½ m each. For any two differences − 2m
	OR
	Formation of oxyhemoglobin 1m; 4 factors affecting oxygen transport 4 x ½
15.	Cigarette smoking 1m; alveolar wall damaged 1m; reduced surface area of gaseous exchange 1m
16.	a) Atherosclerosis b) block coronar artery / blood supply to heart wall affected c)by
	reducing intake of salty food / regular exercise/ no overeating 1+1+1
	OR  News and / symantic lynch/ neurotronomitten/ activates nest symantic mambrane thus action
	Nerve end / synaptic knob/ neurotransmitter/ activates post synaptic membrane thus action potential is passed on to next neuron. $1+1+1$
17.	Globulin, fibrinogen, albumin and one function each 1m each.
18.	Diagram- 1m; four parts - 2 marks (2 points)
10.	Diagram 1m, rout parts 2 marks (2 points)
	OR

	Cortical and JM nephrons 1 m; 2 differences – 2m
19.	Release of urine from urinary bladder. Stretching bladder generate action potentials and passing it to CNS/From CNS to smooth muscles of UB /and urethral sphincter muscles/ causes releasing of urine. 1+ 2
20.	Swimming of spermatozoa/ to maintain water current in canal system of sponges/ locomotion in protozoans 1 mark each.
21.	a) For equalizing pressure on either side of the ear drum b) due to the presence of blood vessels c) for expression of emotions and regulation of sexual behavior
22.	<ul> <li>a) Pituitary Gland b) Thyroid gland c) Adrenal gland</li> <li>OR</li> <li>Definition – 1 m each</li> </ul>
23.	Stomata/ root hair / trichome – 1 m each.
24.	open, closed and conjoint. 1 mark each.
25.	(b) Small intestine (c) Large intestine (d) Stomach 4 x ½ ii) 6 labelled parts 3 m OR Definition of each 5 m  Definition -1 m diagram and labelling – 4m OR  a) Cortisol and aldosterone 1m b) Blood and axon 1+1 c) Acromegaly and hyper secretion of GH 1+1
27.	Definition – 1 m; correct placentation 4X ½; correct diagram 2m  OR  i) Definition – 1m correct type of aestivation – 2 m  ii) Seed coat and embryo and cotyledon; embryo- radicle and plumule 2m