



BRAINWARE UNIVERSITY

Term End Examination 2023-2024 Programme – B.Sc.(MLT)-2021 Course Name – Fundamentals of Histology Course Code - BMLT303 (Semester III)

Full Marks: 60 Time: 2:30 Hours
[The figure in the margin indicates full marks. Candidates are required to give their answers in their

own words as far as practicable.]

Group-A 1 x 15=15 (Multiple Choice Type Question) 1. Choose the correct alternative from the following: (i) Which one of these is phagocytic cell in nature? a) Astrocyte b) Oligodendrocyte c) Schawan cell d) Microcyte (ii) The layer of eye which consists of dense fibrous connective tissue is the b) choroid a) sclera d) lens c) retina (iii) Select the Aqueous humor is actively secreted by cells of the a) Cornea c) Cilliary process d) Stria vascularis (iv) Select The fluid environment for hair cells is b) Mesolymph a) Perilymph d) CSF c) Endolymph (v) Identify what the middle ear communicates with via the Eustachian tube b) nasopharynx a) vestibule d) external auditory meatus c) endolymphatic sac (vi) Identify which cell type in the basal layer of the epidermis contains most of the melanin b) melanocytes a) keratinocytes d) fibroblasts c) langerhans cells (vii) How many kinds of taste receptors are present on the tongue? b) 5 a) 4 d) 3 c) 7 (viii) Where are the Islets of Langerhans inferred to be located in the body? b) Adrenal cortex a) Anterior Pituitary d) Pancreas c) Spleen (ix) What hormone is secreted by corticotropes in the body?

a) MSH

b) TSH

c) STH (x) Aldosterone is secreted from which lay	d) LH er of the Adrenal cland?	
a) Zona glomerulosa	b) Zona fasciculata	
c) Zona reticularis	d) Adrenal medulla	
(xi) Presence of Umbrella cells is the charac		
a) Nephron	b) Urethra	
c) Urinary bladder	d) Ureter	
(xii) Indicate the Urethra contains with		
a) pseudostratified columnar epitheliur	n b) cuboidal epithelium	
c) squamous epithelium	d) ciliated epithelium	
(xiii) Which cells provides nutrition to the sp	perms ?	
a) Germinal cells	b) Epithelial cell	
c) Sertoli cell	d) None of them	
(xiv) Choose the Primary Oocyte is		
a) Haploid	b) Diploid	
c) Triploid	d) Polyploid	
(xv) The nutritive medium for the ejaculate	d sperms is given by which one	
a) Vaginal fluid	b) Uterine fluid	
c) Seminal fluid	d) fallopian tube	
	Group-B	
(Short A	Answer Type Questions)	3 x 5=15
2. Define the function of the artery layer of	tunica media	(3)
3. Explain the different histological structure of liver		(3)
4. write a short note on Kupffer cells		(3)
5. Discuss on Basal Ganglia		(3)
6. Explain the three main histological section	ns of the kidney	(3)
	OR	
Explain the pineal gland		(3)
	Group-C	
(Long A	nswer Type Questions)	5 x 6=30
(cong.)	inswer type questionsy	J X 0-30
7. Evaluate the significance of the follicular	cells within the ovarian cortex.	(5)
8. Identify the Master gland and summarize the structure of that gland		(5)
9. Briefly discuss the histological structure of the adrenal gland with a diagram		(5)
10. Define the components of the stomach and identify the layer		(5)
11. How does the histological structure of the stomach differ from that of the small intestine,		
and what are the implications of these differences in their respective functions?		(5)
12. Describe the histological features that distinguish elastic arteries from other types of		(5)
arteries, such as muscular arteries and arterioles		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	OR	
Compare and contrast the histological fe medulla. What are the key differences a	eatures of the ovarian cortex with those of the nd similarities between these regions?	(5)
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