0101N1407

Candidate's Seat No :_____

M.Sc. Sem.-1 Examination

403

Zoology

January-2024

Time: 2-30 Hours]

Q-I	L.	1 Write a note on microscopic aberrations. [Max. Marks	: 70
		Write a note on SEM.	(0
		OR	(0
		Write a note on fluorescence microscope.	0
		Explain phase contrast microscopy.	(0)
			(0)
Q-II	1	write a orier account of the variables influencing the matrix	
	2	Explain the differential centrifugation technique.	(07
		OR	(07
	1	Write an account on SDS-PAGE.	OI
	2	Give a note on analytical ultracentrifugation.	(07
		my creat diffraction.	(07
Q-III	1	Explain briefly: collimating system and many 1	L
	2	Explain briefly: collimating system and monochromator for UV/Vis spectroscopy. Discuss the principle, types and applications of NMR.	(07
			(07)
	1	Give a note on paper chromatography in detail.	OR
	2	Write a short note on separation techniques.	(07)
		the consequence of separation techniques.	(07)
Q-IV	1	Give a brief account of various fixatives used in tissue fixation.	
	2	Describe in detail the immunohistochemical techniques.	(07)
			$\begin{array}{c c} & (07) \\ \hline & (07) \end{array}$
	1	Briefly explain the various acts	OR
		Briefly explain the various categories of stains used in histological studies. Add a note on any one of the staining technique you have studied.	(07)
	2	With neat labeled diagrams at its investigation.	(07)
		With neat labeled diagrams explain the histology of Liver.	(07)
Q-V	Answer any SEVEN out of TWELVE.		+ (0.7)
	1	What is numerical aparture 2 H	(14)
<u></u>	2	What is numerical aperture? How it is useful in microscopy? Draw diagram for the varieties in the second state of the second	$\frac{14}{02}$
-	3	Draw diagram for the various information written on microscope objective lens.	$\frac{02}{02}$
-	4	Draw Jabioliski energy diagram for the fluorougens 1.1	
H	5		02
-		- Total for acceptable force and note of control of	02
	0		02
-			02
<u> </u>		Give the full form of "HPTLC".	
-	8	Why should OD not exceed 1?	02
J	9	Add a note on "Adsorption".	02
 -		What are accentuators?	02
} ——		What is metachromasia?	02
1	2 \	What are neutrophilic tissues?	02
			02

