SUBJECT CODE NO: - FF-6652 FACULTY OF SCIENCE AND TECHNOLOGY

M.Sc. (Sem-II) (Zoology)

Examination January-2023

Instrumentation and Biological Techniques and Scientific Writing-ZOO-204 &-ZOO-205

Tim	ne: 3:00 Hours] [Max. Marks: 8
-	Please check whether you have got the right question paper.
N. B	1) Part 'A' is compulsory.
	2) Attempt any five questions from part 'B'
	3) Draw neat diagram wherever necessary
	Part- A
Q1	
	Multiple choice question (Each question carry 2 marks)
	1- Bouin's fluid is yellow because of the presence of-
	a. Chloroform b. Picric acid c. Formaldehyde d. Iodine
	2- Classical PH meter in chemical or clinical laboratory is made with a glass electrode that is selectively sensitive to
	a. Na ⁺ b. K ⁺ c. H ⁺ d. OH ⁻
	3- Which of the following is used as detector crystal in ESR spectrometer
	a. Silicon tungsten rectifier c. Silicon boron rectifier
	b. Silicon rectifier d. Silicon quarty rectifier
	4- Polyacrylamide gel electrophoresis (PAGE) is used for analysis.
	a. Protein only c. Protein and Nucleic acid
	b. Nucleic acid only d. None of these
	5 is an important pre requisite for aspiring writers.
	a. Speaking b. Talking c. Reading d. Assessment
	6- Which of the following is necessary component in scientific writing
	6- Which of the following is necessary component in scientific writing a. Nature of study b. Aims c. Sources of information d. Scope of the study
	a. Tradite of study b. 74ms c. Sources of information d. Scope of the study
	7- The act of presenting someone else's work or idea as own is considered as-
	a. Academic dishonesty c. Wrongful appropriation
	b. Plagiarism d. All of these

	8- Which of the following thing should be avoided while writing a conclusion	
	a. Ignoring the negative results	
	b. Providing unclear summary	
	c. Summarise his research	
	d. Aspects of future research	
	9- Which of the following is not true about high pressure liquid chromatography?	
	a. It requires high pressure for absorption and separation	A.
	b. It is performed in columns	
	c. It has high sensitivity	
	d. The is no need to vaporise the sample	
		35
	10- Scientific writing is a serious and way of writing.	
	a. Formal b) Informal c) Easy d) difficult	
	Part B	
	(Attempt any five)	
Q2	Describe principle of polyacrylamide gel electrophoresis with its applications.	12
Q3	Explain role of English language in scientific writing	12
Q4	Write in detail specimen preparation for scanning electron microscopy	12
Q5	Describe the standard structure of scientific paper	12
45	Describe the standard structure of scientific paper	12
Q6	What is the principle of P ^H meter! Explain its working and applications.	12
, Qu	what is the principle of 1 meter: Explain its working and applications.	12
07		10
Q7	Give an account of 'scientific writing in computer age'	12
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Q8	Write notes on- (any two)	12
	A- Principle of gas chromatography	
	B- Theory of fixation	
	C- Copyright and authorship	
	D- Types of visual aids	