

Total No. of Printed Pages:02

SUBJECT CODE NO: - SS-6593
FACULTY OF SCIENCE AND TECHNOLOGY
M.Sc. (Zoology) (Sem-II)
Examination May / June - 2023

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

[Time: 3:00 Hours]

[Max. Marks: 80]

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 whenever necessary.

Part-A

Q.1 Multiple choice questions (each question carries two marks)

20

- 1) The cathode of Transmission electron microscope consist of a _____
 a) Bulb b) Iron filament c) Tungsten wire d) Gold wire
- 2) Which of the following is components of Zenker's fluids?
 a) Mercuric chloride b) Potassium dichromate
 c) Sodium sulphate d) All of the above.
- 3) Which process is widely used in the dairy industry?
 a) Evaporation b) Distillation
 c) Centrifugal separation d) Crystal growth
- 4) _____ is used to detect and amplify and antigen-antibody reaction
 a) ELISA b) Calorimetric biosensor
 c) Optical biosensor d) Potentiometric biosensor.
- 5) Which of the following pieces of information is typically not on the title page of a manuscript?
 a) Author names b) Author affiliation
 c) Key words d) Research acknowledgements.
- 6) What is the purpose of the abstract?
 a) Result and discussion b) Detailed analysis of finding
 c) Concise summary d) literature review
- 7) One of the main purpose for including materials and methods section in a paper is _____
 a) To demonstrate that your methods are Superior to other scientist method.
 b) To advertise scientific products.
 c) To convince the reader that is your work is valid
 d) For no reason

- 8) Which of the following font generally used in Scientific writing
a) 12 point Times New Roman b) Comic Sans MS 14 point
c) 12 Freeform 721 BIK BT d) 12' Allegro
- 9) Which of the following is commonly used Support material for the packed column in gas chromatography?
a) Metal b) Diatomaceous earth c) Glass d) Stainless steel.
- 10) In scientific writing foreign words and phrases should be _____
a) Normal b) Capitalize c) Italicize d) None of these.

Part-B

(attempt any five)

- Q.2 What is sedimentation? Describe types of centrifuges 12
- Q.3 Describe in detail different cytochemical and histological methods. 12
- Q.4 Explain in brief matter dealing with authorship and copyright. 12
- Q.5 Describe in detail structure and of text, table in writing of Scientific paper. 12
- Q.6 Describe different types of visual aids with their significance. 12
- Q.7 Write the principle of nuclear magnetic resonance spectroscopy. Explain its applications. 12
- Q.8 Write notes on. - (any two) 12
- A. Agarose gel electrophoresis
 - B. pH meter
 - C. Communication channels
 - D. Scientific writing in computer age