

**DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,
CHHATRAPATI SAMBHAJINAGAR.**



CIRCULAR NO.SU/B.Sc.Zoo/Practical Question Paper/68/2024

It is hereby inform to all concerned that, Pattern of Question Paper prepared by the Board of Studies and recommended by the Dean, Faculty of Science & Technology, the Hon'ble Vice-Chancellor has accepted **the Practical Pattern of Question Paper of B.Sc.Zoology IIIrd and IVth semester under the scheme of Choice Based Credit & Grading System** in his emergency powers under section 12(7) of the Maharashtra Public Universities Act, 2016 on behalf of the Academic Council as appended herewith.

This is effective from the Academic Year 2023-24 and onwards.

All concerned are requested to note the contents of this circular and bring the notice to the students, teachers and staff for their information and necessary action.

University Campus,
Chhatrapati Sambhajanagar
-431 004.

REF.NO. SU/SCI/2024/23230-38

Date:- 12.03.2024.

★
★
★
★
★
★
★
★
★


**Deputy Registrar,
Academic Section.**

Copy forwarded with compliments to :-

- 1] **The Principal of all concerned Colleges,**
Dr. Babasaheb Ambedkar Marathwada University,
- 2] **The Director, University Network & Information Centre, UNIC, with a request to upload this Circular on University Website.**

Copy to :-

- 1] **The Director, Board of Examinations & Evaluation, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajanagar.**
- 2] The Section Officer,[B.Sc.Unit] Examination Branch, Dr.Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajanagar
- 3] The Programmer [Computer Unit-1] Examinations, Dr.Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajanagar.
- 4] The Programmer [Computer Unit-2] Examinations, Dr.Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajanagar
- 5] The In-charge,[E-Suvidha Kendra], Rajarshi Shahu Maharaj Pariksha Bhavan, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajanagar.
- 6] The Public Relation Officer, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajanagar.
- 7] The Record Keeper, Dr.Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajanagar.

Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajanagar
SKELETON OF QUESTION PAPER
S. Y. B.Sc. (Semester III +IV)
Course Code - ZOL-321+ ZOL421
Developmental Biology of Vertebrate + Biochemistry and Endocrinology
(PRACTICAL)

Time: - 4:00 hrs

Total marks: -80

- Q.1.** Detection of organic compound from given samples A & B. Report the test, observation and results. **15**

OR

Calculate the RF values of given amino acid using Paper Chromatography

- Q. 2.** Identification of whole mounts of different types of sperm (Slide/Charts) (Any two) **15**

OR

Identification of the types of egg and cleavage pattern (Slide/Chart) (Any Two)

- Q. 3.** Prepare the solutions of given percentage/normality/molarity (Any two) **15**

OR

Identify the given analytical instrument (pH meter, centrifuge, electrophoresis, and colorimeter). Write principle and its application (any three)

- Q. 4.** Identify the given spots and comments **20**

(Whole mount of Chick Embryo – 02. Endocrine glands- 03.)

- Q. 5.** Record Book **10**

- Q. 6.** Viva-voce **05**



Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar

SKELETON OF QUESTION PAPER

S. Y. B.Sc. (Semester III + IV)

Course Code - ZOL-322+ ZOL422

Ecology and Environmental Biology + Evolution

(PRACTICAL)

Time: - 4:00 hrs

Total marks: -80

-
- Q. 1.** Estimation of Dissolved oxygen/Salinity/Chlorinity/Alkalinity from given water sample **15**
OR
Estimation of water holding capacity of given soil sample
- Q. 2.** Calculate the population density of given sample using quadrature method **15**
OR
Temporary mounting of microscopic fauna
(Protozoan/Phytoplankton/Zooplankton/Any micro fauna)
- Q.3** Identify and comment on homologous organs, analogous organs and connecting link. (Any two) **10**
OR
Comment on successive stages of Horse/Man
OR
Study on patterns of speciation (Allopatric Speciation and Sympatric Speciation)
- Q. 4.** Identify the given spots and comment **25**
(Adaptations – 02, Embryological evidences – 01, Animal association - 02)
- Q. 5.** Record Book **10**
- Q. 6.** Slide Submission and Viva-voce **05**