

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY



CIRCULAR NO.SU/B.Sc.Pattern of Question Paper /29/2022

It is hereby inform to all concerned that, Recommendation of the Dean, Faculty of Science & Technology, the Hon'ble Vice-Chancellor has accepted **the Pattern of Question Paper(Theory) of All curriculum of B.Sc. First Year, B.Sc. Mathematics and Practical Question Paper for the Curriculum of B.Sc. Zoology, Chemistry 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 2022-23 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,
Aurangabad-431 004.
REF.NO.SU/2022/ 12810-19
Date:- 18.10.2022.

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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.BAMU,A'bad.
- 2] The Section Officer, [B.Sc.Unit] Examination Branch,Dr.BAMU,A'bad.
- 3] The Programmer [Computer Unit-1] Examinations, Dr.BAMU,A'bad.
- 4] The Programmer [Computer Unit-2] Examinations, Dr.BAMU,A'bad.
- 5] The In-charge,[E-Suvidha Kendra], Rajarshi Shahu Maharaj Pariksha Bhavan, Dr.BAMU,A'bad.
- 6] The Public Relation Officer, Dr.BAMU,A'bad.
- 7] The Record Keeper, Dr.BAMU,A'bad.

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD

Nature of Question paper for CBCS semester pattern -2022

F.Y. B.Sc. for all subjects

Time -2 hours

Max. Marks -40

Instruction

1. All question are compulsory
2. All question carry equal marks
3. Draw neat diagrams and give labels wherever necessary
4. Fingers to the right indicate full marks
5. -----

Q.1. Long answer questions ----- (Based on unit-1) -----10 marks

Or

Explain in brief

- a. Short Answer questions (unit-2)
- b. Short Answer question (unit- 2)

Q.2. Long answer questions ----- (Based on unit-3) -----10 marks

Or

Explain in brief

- a. Short Answer questions (unit-4)
- b. Short Answer question (unit -4)

Q.3. Write short notes on (any -2) -----10 marks

1. Short note based on (unit-1)
2. Short note based on (unit-2)
3. Short note based on (unit-3)
4. Short note based on (unit-4/5)

Q.4. Multiple choice questions (1-10) -----10 Marks

Note- 1. Ten MCQs having four alternatives based on theory (maximum 2/3 MCQ, 5 from each chapter),
2. Give equal weightage to each chapter


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Faculty of Science & Technology
Pattern of Practical Question Paper Examination
B.Sc. F.Y. ZOOLOGY (Practical) Sem-I ZOL- 103 & Sem- 106
(Based on ZOL- 101 & 102, 104 & 105)

Time: 3 Hour
Date-

Max Marks: 80
Centre—

- Q.1. Identify the given spots and comments on it (Any Six) 10
(Protozoa to Echinodermata, cell organelles and Cancer cell)
- Q.2. Identify & classify the given spots and comments on it (Any Six) 10
(Protochordata to Mammalia)
- Q.3. Dissect the -----So as to expose its----- System 10
- Q.4. Mounting of squash preparation of Onion root tip, identify the stage and give the reasons 06
OR
Identification of Protozoan/ Coelenterates in pond/lake water sample.
- Q.5. Find out the blood groups and Rh factor of given blood sample 06
OR
Study of preparation of Normal Karyotype of human
- Q.6. Problem on Sex Linked Inheritance 06
OR
Detection of Bar body from epithelial Cells.
- Q.7. Identify the given spot and comments on it. (Any Two) 06
(Mosquito, Housefly, Honey bee, Cockroach and Butterfly)
- Q.8. Prepare temporary slide of the following: (Any Two)
OR
Study of Prokaryotic cell by using Gram staining technique
- Q.9. Study of gene frequency and mutants of man (Any Two) 06
(Attached ear lobe, Colour of eyes, rolling of tongue and blood group frequency)
OR
Identify the Spot 1-3 based on common Mutants of Drosophila
- Q.10. Genetics- Major/ Minor Problem 06
- Q.11. Field Visit/Submission/Project 04
- Q.12. Viva-Voce 10


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Pattern of Practical Question Paper Examination

B.Sc. F.Y. Chemistry (Practical)

Sem -I (CHE-121) & Sem -II (CHE-221)

Time: 4:00 Hrs

Maximum Marks: 80

Q1. Inorganic chemistry Section (20 Marks)

a) Semi micro qualitative analysis of inorganic salt mixture containing two acidic radicals and two basic radicals of same or different groups.

OR

b). Estimation of sodium carbonate and sodium hydrogen carbonate present in a mixture.

OR

c. Estimation of oxalic acid by titrating it with KMnO_4 .

OR

d. Estimation of water of crystallization in Mohr's salt by titrating with KMnO_4 .

OR

e. Estimation of Fe (II) ions by titrating it with $\text{K}_2\text{Cr}_2\text{O}_7$ using internal indicator.

OR

f. Estimation of Cu (II) ions iodometrically using $\text{Na}_2\text{S}_2\text{O}_3$.

Q2. Organic Chemistry Section (20 Marks)

a). Organic Qualitative Analysis: Detection of physical constant, type, functional group, elements, and Confirmatory test of Acid/Phenol/Base/Neutral.(Any one compound)

OR

b. Preparation of acetanilide (Acetylation).

OR

c. Preparation of Benzanilide (Benzoylation).

OR

d. Preparation of m-di-Nitrobenzene (Nitration).

OR

e. Preparation of tri-Bromoaniline from Aniline (Bromination).

OR

f. Preparation of Benzoic acid from Benzamide (Hydrolysis).

OR

g. Preparation of phenylazo- β -naphthol dye (Diazotisation)


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Q3. Physical Chemistry Section (15 Marks)

- a. Determination of heat capacity of calorimeter for different volumes.
OR
b. Determination of enthalpy of neutralization of hydrochloric acid with sodium hydroxide.
OR
c. Determination of enthalpy of ionization of acetic acid.
OR
d. Determination of integral enthalpy of solution of salts (KNO_3 , NH_4Cl).
OR
e. Determination of enthalpy of hydration of copper sulphate.
OR
f. Study of the solubility of benzoic acid in water and determination of ΔH .
OR
g. Determination of Equivalent weight of mg by Eudiometer

Q4. Physical Chemistry and Applied Chemistry Section (15 Marks)

- a. To Determine Viscosity of given liquid (Water / Ethanol) by viscometer.
OR
b. To determine surface tension of given liquid by Staganometer.
OR
c. Chemical Kinetics: To study the effect of acid strength on the hydrolysis of an ester.
OR
d. Identify and separate the components of a given mixture of two amino acids by paper chromatography.
OR
e. Identify and separate the cations by Paper Chromatographic technique from the given mixtures.

Q.5 Record book and viva-voce (10 Marks)


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DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY

B.Sc. (First Year) (CBCS PATTERN) 2022-2023

FACULTY OF SCIENCE & TECHNOLOGY

B.Sc. (First Year) EXAMINATION

MATHEMATICS

Model Question Paper

Time: 1:30 hours

Max.Marks:40

Please check whether you have got the right question paper

- N.B. 1) Attempt all questions
2) Figures to the right indicate full marks
- Q.1. A) Attempt any one: (05)
a) Theory
b) Theory
B) Attempt any one: (05)
c) Problem
d) Problem
- Q.2. A) Attempt any one: (05)
a) Theory
b) Theory
B) Attempt any one: (05)
c) Problem
d) Problem
- Q.3. A) Attempt any one: (05)
a) Theory
b) Theory
B) Attempt any one: (05)
c) Problem
d) Problem
- Q.4. Choose the correct alternative (Attempt All) (M.C.Q from each Unit) (10)
i)
ii)
iii)
iv)
v)