

ANDHRA UNIVERSITY



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All Official letters, packages etc, should be addressed to the Registrar by designation and not by name.

No. LI (2)/U.G. Courses/MQP/2021

Visakhapatnam,
Dt: 12-10-2021

From: **THE REGISTRAR**

To

The Controller of Examinations,
Andhra University,
Visakhapatnam.

Sir,

Sub: Approval of Model Question Papers – Reg.

Ref: Email's dt 28-09-2021, 06-10-2021 & 07-10-2021 along with Model Question Papers.

With reference to the above, I am by direction to inform you that the Choice Based Credit System, U.G. Courses (w.e.f. 2020-2021) Model Question Papers of have been approved as detailed below:

S.No.	Subject	Name & Designation	Name of the College	Model question papers	Name of the Paper
1.	B.Sc. Botany	Dr.R. Prameela, Chairperson	M.R. Degree College, Vizianagaram	Semester-II (MQP)	Basics of Vascular Plants and Phytogeography
2.	B.Sc. Biochemistry	Gudimella Shakuntala, Associate Professor, Chairperson	Dr. L.B. College, Visakhapatnam	Semester-II (MQP)	Analytical Techniques
3.	B.Sc. Biotechnology	Dr. R. Haritha, Lecturer in Biotechnology,	Visakha Government Degree College for Women, Visakhapatnam	Semester-II (MQP)	Biotechnology
4.	B.Sc. Chemistry	Dr. A. Ram Gopal, Asst. Professor in Chemistry	Collegiate Education & Chairman, Board of Studies, U.G. Chemistry, A.U.	Semester-II (MQP)	Organic & General Chemistry
5.	B.Sc. Physics	Dr. Srinivas Siriki, Professor of Physics	Mrs. A.V.N. College, Visakhapatnam	Semester-II (MQP)	Skill Development Course Solar Energy

(PTO)

MODEL PAPER

B.Sc BIOCHEMISTRY revised syllabus under CBCS

w.e.f. 2020-2021

B.Sc. DEGREE EXAMINATION

SEMESTER –II

Course: Analytical Techniques

Code: BCH-II

TIME : 3 HOURS

MAXIMUM MARKS :75

PART-A

ANSWER ANY FIVE OF THE FOLLOWING QUESTIONS

EACH CARRIES FIVE MARKS

5x5=25 MARKS

1. Svedberg unit
2. Homogenisation of tissues
3. Rf value
4. Ion exchange resins
5. ELISA
6. Beer-Lamberts law
7. Paper electrophoresis
8. Acid fast staining

PART-B

ANSWER ALL QUESTIONS EACH CARRIES TEN MARKS

5x10=50 MARKS

9 (a). Write the principle , Instrumentation& applications of Analytical Ultra Centrifuge.

OR

9 (b). Write the Principle and describe the methodology and applications of Density Gradient Centrifugation.

10 (a). Describe the Principle,methodology and applications of Paper Chromatography.

OR

10 (b). Write about the Principle , methodology and applications of Ion exchange chromatography.

11 (a) Describe the Principle, Instrumentation and applications of UV-Visible Spectrophotometry.

.OR

11(b). Write the Principle, Instrumentation and applications of flame photometry.

12 (a). Write the Principle , Methodology and applications of SDS- PAGE.

OR

12 (b) Discuss the different types and applications of Immunoelectrophoresis

13 (a) . Describe the Principle and applications of Phase Contrast and Electron microscopy.

OR

13 (b). Describe the different methods of Sterilisation in Microbiology.

G. V. Shekhar