ANDHRA UNIVERSITY

Telegram: UNIVERSITY
Telephone: 284 4000
Fax: 0891-27555324

No. L I (1)/U.G. Courses/Chemistry/MQP/2021

From: THE REGISTRAR

To

Dr. A. Ram Gopal,
Chairman, Board of Studies in Chemistry(U.G.),
Asst. Professor in Chemistry,
Collegiate Education,
Andhra Pradesh.

Sir,

Sub: Approval of Model Question Papers – Reg.

Ref: Email letter dated 22-05-2021 along with Model Question Papers.

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With reference to the above, I am by direction to inform that the Revised Choice Based Credit System, U.G. Courses (w.e.f. 2020-2021) 1) Semester-I Chemistry Course-I: Inorganic & Physical Chemistry 2) Food Adulteration Model Paper (Skill Development Curses Model Question Papers has been approved.

Hence, I request to arrange to circulate the same among the Teaching Staff and Students concerned and placed in A.U. website.

Yours faithfully,

(M. HEMA NAIK)
DEPUTY REGISTRAR (ACADEMIC)

Copies to:

1. The Dean of Academic Affairs, A.U., Vsp.
2. The Director, Computer Centre, A.U. Vsp.
3. All Principals, A.U. Affiliated Colleges Offered in U.G. courses.
4. The Superintendent S.I Section for taking necessary further action.
Sub: Submission of Model Question Papers under Revised Cf

Dr. Ram Gopal A

to me

Sir/Madam,

Please find the attachments.

On Sat, May 1, 2021 at 11:47 AM Legal Section, Andhra University <supdt4041@gmail.com> wrote:

I am herewith attaching letter to frame and send the Model Question Papers of all subjects (w.e.f.202

with regards,

Superintendent
Legal Section, CAO, AU

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With Regards,

Dr. A Ram Gopal
Asst. Professor in Chemistry
Collegiate Education
Andhra Pradesh
To  
The Registrar  
Andhra University  
Visakhapatnam  

Respected Sir,  

Sub: Submission of Model Question Papers under Revised CBCS w.e.f. 2020-21 - Reg.  
Ref: LR. No: LI (1)/UG Courses (CBCS)/2021 dated 30.04.2021 of the Registrar, AU.  

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In obedience to the orders communicated through the letter cited in the reference, I humbly submit that I have prepared Model Papers for First Semester in Chemistry and Food Adulteration as per revised CBCS syllabus w.e.f. 2020-21.

Preparation of model papers is a responsible job and involvement of all members will certainly ensure quality outcome. I request your office support in establishing contact with the members in preparing model papers for remaining semesters.

The details of model papers submitted are as shown below:

<table>
<thead>
<tr>
<th>Year &amp; Stream</th>
<th>Subject</th>
<th>Semester</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>I B Sc.</td>
<td>Chemistry</td>
<td>I</td>
<td>Inorganic &amp; Physical Chemistry</td>
</tr>
<tr>
<td>All UG Streams</td>
<td>Food Adulteration</td>
<td>I</td>
<td>Skill Development Course</td>
</tr>
</tbody>
</table>

This is for your kind information and perusal.

Thanking your esteemed self,

Copy Communicated through mail to

1. AR (Academic), AU

Yours faithfully,

Dr A. Ram Gopal  
Lecturer in Chemistry  
& Chairman  
BOS  
UG Chemistry
Broad Guidelines
B.Sc. Chemistry Revised Syllabus under CBCS
w.e.f. 2020-21
For FIRST YEAR B.Sc., DEGREE EXAMINATION
SEMESTER-I
CHEMISTRY COURSE-I: INORGANIC & PHYSICAL CHEMISTRY

➢ The question paper shall comprise two parts. Namely Part-A & Part-B.
➢ Part-A shall have eight (08) Short Answer Questions (SAQs). At least, one question is to be given from each unit. Each SAQ carries 5 marks. The candidate has to answer any five SAQs.
➢ Part-B shall have Five (05) Essay Answer Questions (EAQs) with internal choice. At least, one question is to be given from each unit. Each EAQ carries 10 marks. The candidate has to answer all five EAQs.
➢ Keeping in line with the policy that “Question paper should cover entire syllabus”, topic selection for framing questions has to be followed scrupulously.
➢ Internal choice for EAQs shall be from same unit, if the number of EAQs to be given from the unit are even (02)
➢ However, when three EAQs are to be given from the same unit, two EAQs should be internal choices.
➢ Under no circumstances, an inorganic topic question shall be clubbed as internal choice with a physical chemistry question.
MODEL PAPER
B.Sc. Chemistry Revised Syllabus under CBCS
w.e.f. 2020-21
FIRST YEAR B.Sc., DEGREE EXAMINATION
SEMESTER-I
CHEMISTRY COURSE-I: INORGANIC & PHYSICAL CHEMISTRY

Time: 3 hours
Maximum Marks: 75

PART- A

Answer any FIVE of the following questions. Each carry FIVE marks

1. Explain the structure of Borazine
2. Give any two preparations of Phosphonitrilic halide compounds.
3. Write the classification of oxides based on chemical nature.
4. Write a short note on any one theory of bonding in metals.
5. Write a short note on crystal systems.
8. Write about Common ion effect.

PART- B

5 X 10 = 50 Marks

Answer ALL the questions. Each carry TEN marks

9 (a). Explain the Classification and Preparations of Silicones.

(or)

(b). Explain the Structures of AX₃ and AX₅ type interhalogen compounds.
10 (a). What is Lanthanide Contraction? Explain the Consequences of Lanthanide Contraction.

10 (b). Explain any three Characteristic Properties of d-block elements.

11 (a). Define Bragg’s Law. Explain the determination of structure of a crystal by powder method.

11 (b). What is Critical Solution Temperature (CST)? Explain CST by taking phenol-water system as example.

12 (a). Derive relationship between Critical constants and Vander waal’s constants.

12 (b). Derive Vander Waal’s equation of state for real gasses.

13 (a). Write an experimental method for the determination of molar mass of a non-volatile solute by using Elevation in boiling point.

13 (b). Write an experimental method for the determination of molar mass of a non-volatile solute by using Osmotic Pressure.

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(End of Model Paper)
FOOD ADULTERATION
MODEL PAPER
(SKILL DEVELOPMENT COURSES)
UNDER CBCS FRAMEWORK WITH EFFECT FROM 2020-21

Max. Marks: 50

Time: 1½ hrs. (90 Minutes)

SECTION-A

(4 x 5 M = 20 Marks)

Answer any four questions. Each answer carries 5 marks
(At least 1 question should be given from each Unit)

1. Explain food adulteration.

2. Explain the adulteration occurring through food additives

3. Name few cheap substitutes used in food adulteration

4. Give examples for food additives and sweetening agents

5. Write short notes on processed foods.

6. Explain the procedures to complain about the food adulteration

7. Name the laws that govern the food adulteration

8. Explain the procedure to get compensation to the victims of food adulteration

SECTION B

(3 x 10 M = 30 Marks)

Answer any three questions. Each answer carries 10 marks
(At least 1 question should be given from each Unit)

9. Write an essay on the common foods which are subjected to adulteration.

10. Describe the highlights of Food Safety and Standards Act 2006.

11. Explain the standardized food testing methods and protocols

12. Explain the general Impact of food adulteration on human health.

13. Write an essay on different types of offenses of food adulteration and the penalties imposed.

(End of Model Paper)