

BACHELOR OF EDUCATION

Term-End Examination

December, 2006

ES-341 : TEACHING OF SCIENCE

Time : 3 hours

Maximum Weightage : 70%

Note :

- (i) All the **four** questions are compulsory.
- (ii) All the questions carry equal weightage.

1. Answer the following question in about 600 words.

What is science ? What should be done in your opinion to improve the teaching – learning process of science in secondary schools of our country ?

OR

Write down the names of five effective methods of teaching science at secondary stage. Describe the advantages and disadvantages of using any one of them for teaching in a class. Give appropriate examples to explain your answer.

2. Answer the following question in about 600 words.

Identify the main teaching points, formulate corresponding objectives in behavioural terms and explain

teaching – learning process that you will follow while teaching any **one** of the following topics at secondary level :

- (i) Chemical Equilibrium
- (ii) Conservation of Momentum

3. Write brief notes on any **five** of the following in about 120 words each :

- (i) Importance of teaching science in secondary schools
- (ii) Demonstration method in teaching of science
- (iii) Need for planning a lesson
- (iv) Merits and demerits of objective type tests
- (v) Improvised teaching aids
- (vi) Important points in teaching “refraction of light”
- (vii) Different teaching methods used in teaching ‘chemical bonding’
- (viii) Teacher – pupil activities used while teaching “Food Preservation”

4. Answer the following question in about 600 words.

Discuss the importance of laboratory work in science teaching. How will you plan and organise your laboratory so that students can learn ‘scientific method’ and develop ‘scientific attitude’ ?