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Name : Chittu Srivastava

First Semester B.Ed. (Restructured) Degree Examination, March 2007
B – Optional Subjects

Paper – IV – THEORETICAL BASE OF TEACHING NATURAL SCIENCE

Time: 2 Hours

Max. Marks: 50

I. Answer two questions (not exceeding three pages each) :

- 1) Effecting social change is one of the broad aims of teaching Natural Science. Briefly explain how this could be achieved.
- 2) Explain the nature and scope of Biology. Bring out the relationship of Biology with other school subjects.
- 3) Justify the need for planning in the teaching of Biology. Explain the objectives and types of planning.
- 4) 'Micro-teaching is a scaled down teaching encounter'. Discuss. (2×8=16 Marks)

II. Answer six questions (not exceeding one page each) :

- 5) What is a resource unit ? How is it different from a teaching unit ? What are its advantages ?
- 6) Use of audio-visual aids supports effectiveness of Biology teaching. Illustrate.
- 7) What are the precautions to be borne in mind while planning practical work ?
- 8) Bring out the difference between teacher-centred and pupil-centred learning.
- 9) Briefly explain the taxonomy of educational objectives put forward by McCormack and Yager.
- 10) Explain the different types of biological drawings.
- 11) Mention the names of two eminent Indian biologist and give their contributions.
- 12) Explain the concept of science as a product.

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13) Comment on construction as generating knowledge by students.

14) Why is self-study approach better than reception learning? (6×4=24 Marks)

III. Answer all questions in one or two sentences each :

15) Specify any two advantages of using models in teaching biology.

16) Through an example distinguish between objective and specification.

17) How will you prepare your pupils for a radiolesson?

18) What techniques are recommended for accelerating the fast learner? What enrichment programmes are possible within the present set up?

19) State two specifications for the objective 'Appreciation'.

20) What is the advantage of flannel board over chalkboard?

21) To the learned, deduction comes naturally but to the learner induction is the way. Explain.

22) What is a terrarium?

23) What are the components of multimedia?

24) What is a diorama?

(10×1=10 Marks)