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Name: Chella Exertural

First Semester B.Ed. (Restructured) Degree Examination, March 2007 B – Optional Subject : NATURAL SCIENCE Paper – V : Principles of Pedagogical Analysis – Natural Science

Time: 2 Hours Max. Marks: 50

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

- 1) How could the methods of teaching bring into exercise the skills involved in planning, executing the plan and evaluating the plan in terms of result?
- 2) While preparing a lesson plan for the topic 'Human Ear', how would you present the following:
 - a) Objectives of the lesson
 - b) Content outline
 - c) Learning aids
 - d) Evaluation items.
- Indicate the step by step procedure you would adopt for preparing a teacher made test on the unit 'Nervous System of Man'.
- 4) What are the major pedagogical principles? Explain how these principles are applied while analysing the content 'Nutrition in Animals'. (2×8=16 Marks)

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

- 5) How would you cater to the needs of gifted children in a Biology class?
- Explain four process skills that can be developed in students through biology teaching.
- 7) Write two concepts and two facts for each of the concept for the topic 'Excretion in Man'.
- 8) Explain the important principles of objective based instruction.
- 9) Write two instructional objectives of cognitive domain and two specifications for each of them for the topic 'pollution'.
- 10) Explain the constructivist model for science education.

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- 11) What do you mean by pre-requisites for learning? Mention the prerequisites essential for learning for a topic of your choice.
- 12) How is a teacher benefited by studying the psychology of learning?
- 13) Explain the role of teacher in buzz session and brainstorming.
- 14) What are the important things you would help children to observe in a chart showing an animal cell and a plant cell comparison? (6×4=24 Marks)
- III. Answer all questions in one or two sentences each.
 - 15) Write any two bases for the formulation of objectives.
 - (46) Give two deficiencies in Biology content in Std IX.
 - (17) What is the difference between fact and concept?
 - 18) Mention any two advantages of constructivism in teacher education.
 - 19) State any two skills associated with creativity.
 - 20) State two specifications for the objective 'Attitude'.
 - 21) Write two characteristics of a good learning experience.
 - 22) Mention two national goals of education which can be realised through the teaching of Biology based on the unit 'Agriculture'.
 - 23) What is a matching type test item ? Give an example.
 - 24) Suggest a suitable classroom activity to demonstrate that sunlight is necessary for photosynthesis. (10×1=10 Marks)