



Reg. No. : .....

Name : .....

**First Semester B.Ed. Degree Examination, December 2016**  
**EDU 05.9 : PEDAGOGIC CONTENT KNOWLEDGE**  
**ANALYSIS – NATURAL SCIENCE**  
**(2015 Admn. Onwards)**

Time : 2 Hours

Max. Marks : 50

**PART – A**

Answer **all** questions.

1. Archaeopteryx is the connecting link between
  - a) Prochordates and vertebrates
  - b) Reptiles and mammals
  - c) Reptiles and birds
  - d) Amphibians and reptiles
2. The endocrine gland which is active in childhood but degenerates in adults is
  - a) Pineal gland
  - b) Thyroid
  - c) Thymus
  - d) Pancreas
3. Microteaching was introduced for the first time at
  - a) Stanford University
  - b) CASE Baroda
  - c) Govt. Central Pedagogical Institute, Allahabad
  - d) Sterling University, Scotland
4. The power house of the cell :
  - a) Ribosomes
  - b) Golgi bodies
  - c) Mitochondria
  - d) Endoplasmic reticulum
5. The conceptual framework of pedagogical analysis lies in the work of
  - a) Edgar Dale
  - b) Jean Piaget
  - c) Joseph D. Novak
  - d) Anderson and Krawthwohl

**(5×1=5 Marks)**

P.T.O.



## PART – B

Answer **all** questions.

6. What is resource unit ?
7. Explain microteaching cycle.
8. How does aquarium different from vivarium ?
9. What are the uses of LCD Projector ?
10. List out the components of the skill "Questioning".

(5×1=5 Marks)

## PART – C

Answer **all** questions (Very Short Answer).

11. What is the use of year plan in teaching Life Science ?
12. Classify the teaching aids on the basis of the kind of experience they provide.
13. Why should you give assignments after teaching each unit ?
14. Suggest any two topics in Biology that can be effectively taught by utilizing local resources.
15. Explain the role of AV aids in science teaching.

(5×2= 10 Marks)

## PART – D

Answer **any four** questions (Short Answer).

16. What learning activities would you plan for making your students generate knowledge of image formation in human eye ?
17. Analyse the content of the topic "Control and Coordination".
18. What are the objectives of microteaching ? Explain the relevance of microteaching in the teacher training programme.
19. Write a good introduction to teach the topic "Health and Hygiene".



20. How will you use interactive board for making your teaching effective ?
21. Why we perform pedagogical analysis ? Select a suitable topic from Biology and analyse it on the basis of its components. **(4×5=20 Marks)**

PART – E

Answer **any one** of the questions (Essay).

22. Justify the need for planning in the teaching of Biology. Explain the objectives and types of planning.
23. Prepare a constructivist lesson plan based on the revised Blooms Taxonomy on any one of the following topics from High School Biology.
- a) Cellular respiration in Std. IX.
- b) Transmission of nerve impulse in Std. IX. **(1×10=10 Marks)**
-