



(Pages : 2)

C – 1732

Reg. No. : .....

Name : .....

**Second Semester B.Ed. Degree Examination, April 2017**  
**EDU 10.09 : TECHNO-PEDAGOGIC CONTENT KNOWLEDGE ANALYSIS**  
**NATURAL SCIENCE**  
**(2015 Admission)**

Time : 2 Hours

Max. Marks : 50

**PART – A**

Answer **all** questions.

1. Hypothalamus secretes  
a) Calcitonin                      b) Oxytocin                      c) Melatonin                      d) Prolactin
2. Freewheeling is encouraged in  
a) Buzzsession                      b) Programmed learning  
c) Brainstorming                      d) Group discussion
3. 'Data gathering – experimentation' is the \_\_\_\_\_ of syntax in inquiry training model.  
a) Phase II                      b) Phase III                      c) Phase IV                      d) Phase V
4. An example for insitu conservation is  
a) Ecological hotspot                      b) Gene banks  
c) Zoological Gardens                      d) Botanical garden
5. Combination of different content forms such as audio-visual and interactive provision is the characteristics of  
a) Multimedia                      b) Television                      c) Edusat                      d) Infilibnet  
**(5×1=5 Marks)**

**PART – B**

Answer in **one** or **two** sentences and **all** questions to be answered  
(Very short answer).

6. What is meant by pedagogical knowledge ?
7. Expand - ERIC.
8. What is a CD-ROM ?

P.T.O.

C – 1732



9. Who is the proponent of inductive thinking model ?

10. What do you mean by digital library ?

(5×1=5 Marks)

PART – C

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

11. Differentiate instructional effect and nurturant effect.

12. What do you mean by career readiness ?

13. Explain technological content knowledge.

14. Mention any two objectives of INFLIBNET.

15. What do you mean by teleconference ?

(5×2=10 Marks)

PART – D

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

16. Briefly explain the fundamental elements of a teaching model.

17. Knowledge about students probable misconception and preconception is necessary for a science teacher. Explain.

18. Explain the steps involved in the preparation of an e-learning material.

19. Write a note on online assessment in science teaching learning process.

20. Describe the concept of pedagogical content knowledge analysis by selecting the topic 'skeletal joints in man'.

21. Write an account on global trends and international goals of science education.

(4×5=20 Marks)

PART – E

Answer **any one** question. (Essay).

22. Prepare a lesson plan based on inquiry training model for any of the topic from secondary school biology.

23. Outline a plan of Technological pedagogical analysis of content knowledge on any topic of your choice from secondary school biology.

(1×10=10 Marks)