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A – 2933

Reg. No. : .....

Name : .....

**Second Semester B.Ed. Degree Examination, May 2016**

**(2015 Admn. Onwards)**

**EDU 10.09 : TECHNO – PEDAGOGIC CONTENT KNOWLEDGE**

**ANALYSIS : NATURAL SCIENCE**

Time : 2 Hours

Max. Marks : 50

**PART – A**

Answer all questions.

1. Which hormone increases blood glucose level when it is lowered ?  
a) Thyroxine                      b) Insulin                      c) Glucagon                      d) Cortisol
2. Upward movement of thought ensured in  
a) Factual approach                      b) Deductive approach  
c) Interdisciplinary approach                      d) Inductive approach
3. 'Exploring relationship' is the \_\_\_\_\_ of syntax in inductive thinking model.  
a) Phase III                      b) Phase IV                      c) Phase V                      d) Phase VII
4. An example for ex-situ conservation is  
a) Community reserves                      b) Sacred groves  
c) Botanical gardens                      d) Biosphere reserves
5. The free and safe platform for teachers to connect, develop collaborative projects and share ideas using ICT-is related with  
a) e-twinning                      b) teleconference                      c) inflibnet                      d) ERIC

**(5x1 = 5 Marks)**

P.T.O.





## PART – B

**(Very Short Answer)**

Answer in **one** or **two** sentences and **all** questions to be answered.

6. What is meant by technology knowledge analysis ?
7. What is digital content ?
8. Who is the proponent of inquiring training model ?
9. What is career readiness ?
10. What is science olympiad ?

**(5×1 = 5 Marks)**

## PART – C

**(Short Answer)**

Answer **all** questions :

11. Write any four objectives of NTSS.
12. Expand the following :  
KTET  
INFLIBNET.
13. Write a note on individualised learning strategies.
14. What are modules ?
15. What are the strategies employed in the syntax of inductive thinking model ?

**(5×2 = 10 Marks)**

## PART – D

**(Short Essay)**

Answer **any four** questions :

16. How do Powerpoint help full in class room teaching ? What are the points to be taken care while preparing a power point presentation ?
17. What are misconceptions in science ? Cite one example for a misconception in biology. How will you handle this situation ?





18. What are the challenges faced by TPACK in education ? Suggest your views for the Remediation.
19. Describe the concept of technological pedagogical analysis by selecting the topic 'digestion in man'.
20. What are the career possibilities for a trained post graduate in life science ?
21. How will you develop a blog and make use of it for effective learning in biology ?  
**(4×5 = 20 Marks)**

**PART – E**

**(Essay)**

Answer **any one** question :

22. Outline a plan of technological pedagogical analysis of content knowledge on any topic of your choice from secondary school biology.
23. Prepare a lesson plan based on concept 'attainment model' for any of the topic from secondary School biology.  
**(1×10 = 10 Marks)**