



Reg. No. :

Name :

Second Semester B.Ed. Degree Examination, April 2019
EDU 10.9 : TECHNO-PEDAGOGIC CONTENT KNOWLEDGE ANALYSIS
NATURAL SCIENCE
(2015 Scheme)

Time : 2 Hours

Max. Marks : 50

PART – A

Answer **all** questions.

1. Which among the following teaching model comes under social family ?

- | | |
|-----------------------|-----------------------|
| a) Concept attainment | b) Inductive thinking |
| c) Jurisprudential | d) Inquiry training |

2. The chamber found in between cornea and lense is known as

- | | |
|-----------|-------------|
| a) Retina | b) Aqueous |
| c) Iris | d) Vitreous |

3. Who is the father of taxonomy ?

- | | |
|--------------|-----------------|
| a) Aristotle | b) Theophrastus |
| c) Linnaeus | d) Darwin |

4. The functional unit of kidney is

- | | |
|------------|-----------|
| a) Nephron | b) Neuron |
| c) Ureter | d) Renal |

5. Which of the following is a part of multimedia ?

- | | |
|-------------|-----------------|
| a) Text | b) Picture |
| c) Graphics | d) All of these |

(5×1  larks)



PART – B
(Very Short Answer)

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

6. Name an e-material useful for pedagogic transaction.
7. Describe individualised learning.
8. What is educational entrepreneurship ?
9. Give an example for online quiz maker.
10. What is a blog ? (5×1=5 Marks)

PART – C
(Short Answer)

Answer **all** questions.

11. Write the advantages of computer assisted instruction.
12. Enumerate the importance of competitive examination for teachers.
13. Write a note on self instructional strategy.
14. How e-twinning acts as a means for professional growth ?
15. Discuss the role of university as a centre for career readiness. (5×2=10 Marks)

PART – D
(Short Essay)

Answer **any four** questions.

16. Write the syntax of concept attainment model.
17. Give an account of online assessment.





18. Explain pedagogical content knowledge.
19. Describe the 5E model suggested by BSCS.
20. Discuss the advantages of using multimedia in teaching science.
21. Write a note on science olympiad. **(4×5=20 Marks)**

PART – E
(Essay)

Answer **any one** question.

22. Write the technological pedagogical content knowledge analysis of any one of the following topics.
 - a) Ecosystem.
 - b) Biological interaction.
 23. Write a constructivist lesson plan based on a topic of your choice from secondary school biology curriculum. **(1×10=10 Marks)**
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