

Reg. No. :

Name :

Second Semester B.Ed. Degree Examination, April 2020

**EDU-10.9 : TECHNO-PEDAGOGIC CONTENT KNOWLEDGE ANALYSIS –
NATURAL SCIENCE**

(2019 Admission)

Time : 2 Hours

Max. Marks : 50

PART – A

Answer **all** questions.

1. Models which refers to organize data, sense problems, generate concepts, and solve problems are
 - (a) Social interaction models
 - (b) Personal development models
 - (c) Information processing models
 - (d) Behaviour modification models
2. Which among the following is not applicable in e-twinning?
 - (a) Create online groups
 - (b) Join online groups
 - (c) Participate in online courses
 - (d) All support materials in English Language

P.T.O.

3. Prokaryotic cells do not contain
- | | |
|----------------------------|-------------------|
| (a) Membrane bound nucleus | (b) Cytoplasm |
| (c) Ribosome | (d) Cell membrane |
4. An organism which can monitor air pollution is
- | | |
|--------------|------------|
| (a) Fungi | (b) Lichen |
| (c) Bacteria | (d) Algae |
5. Which element in the Models of teaching explains the role and relationship of the teacher and students?
- | | |
|---------------------------|--------------------|
| (a) Syntax | (b) Social system |
| (c) Principle of reaction | (d) Support system |

(5 × 1 = 5 Marks)

PART – B

Answer **all** questions. Answer in **1** sentence.

6. List any two scope of TPCK.
7. What is meant by a module?
8. Write a short note on e twinning.
9. Give two examples for competitive examinations for secondary school students.
10. What is meant by networking?

(5 × 1 = 5 Marks)

PART – C

Answer **all** questions. Answer in **2 or 3 sentences**.

11. List any two scope of educational entrepreneurship.
12. What is meant by technological content knowledge?

13. What are the elements of Models of Teaching?
14. What is meant by Online Quiz maker?
15. Write any two disadvantages of self-instructional strategies?

(5 × 2 = 10 Marks)

PART – D

Answer **any four** questions. Answer in **6** to **8** sentences.

16. Write the advantages and disadvantages of CAI.
17. What are the characteristics of Teaching Modules?
18. Describe the nature and scope of Self-instructional strategies.
19. How will you develop a Blog?
20. Write a note on Global trends in Natural Science education
21. Give a brief account of Educational Entrepreneurship?

(4 × 5 = 20 Marks)

PART – E

Answer **any one** question. Not exceeding **2** pages.

22. Write a lesson plan based on ITM on a topic of your choice from secondary school biology text book.
23. What is the role of ICT in teaching Natural Science? Explain with appropriate examples.

(1 × 10 = 10 Marks)
