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Name.....

Reg. No.....

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25.06.2020

**FOURTH SEMESTER B.Ed. DEGREE EXAMINATION, APRIL 2020**

B.Ed.

EDU 13.11—PROFESSIONALIZING NATURAL SCIENCE EDUCATION ✓

Time : Two Hours

Maximum : 40 Marks

**Part A**

Answer **all** questions.

Each question carries 1 mark.

1. State any *two* advantages of educational blog.
2. Differentiate between teaching skill and competency.
3. Name any *two* professional organizations for teachers.
4. Mention any *two* digital resources that can be effectively used in natural Science teaching.
5. What is MOODLE ?
6. Mention any *one* extension activity that help in professional growth of Science teacher.

(6 × 1 = 6 marks)

**Part B**

Answer **all** questions.

Each question carries 2 marks.

7. What is the significance of e-learning materials in teaching Biology ?
8. State the significance of professional ethics of a teacher.
9. Explain the need and effect of in-service programmes.
10. What is Virtual Lab ?

(4 × 2 = 8 marks)

**Part C**

Answer any **four** questions.

Each question carries 4 marks.

11. Explain Courseware.
12. Write a short note on teacher's professional organizations.
13. Briefly explain the techniques of in-service teacher education.
14. Distinguish between teaching competence and teacher competence.

Turn over

15. Elaborate kleb-based learning.
16. Explain Techno-Pedagogical skills of a Natural Science teacher.

(4 × 4 = 16 marks)

**Part D**

*Answer any one question.*

*The question carries 10 marks.*

17. Discuss the use of Technology in Science Education.
18. What is TPCK ? Elaborate the meaning, need and scope of techno-pedagogy in Science education.

(1 × 10 = 10 marks)