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Name.....

Reg. No.....

FOURTH SEMESTER B.Ed. DEGREE EXAMINATION, APRIL 2024

B.Ed.

EDU 13.11—PROFESSIONALIZING NATURAL SCIENCE EDUCATION

(2017 Scheme)

Time : Two Hours Maximum : 40 Marks

Part A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. Why is teaching considered a profession ?
2. List soft skills that are important for a science teacher.
3. Mention the qualities that are essential for a good science teacher.
4. Write the names of any *two* prominent research journals in the field of Science Education ?
5. What are the responsibilities of SCERT in relation to the professional development of teachers ?
6. Clarify the concept of Techno-pedagogy.

(6 × 1 = 6 marks)

Part B

Answer **all** *questions.*
Each question carries 2 *marks.*

7. What are the common characteristics of scientifically gifted children ?
8. Mention the advantages of using blogs for online publishing compared to traditional print media.
9. Describe the types of resources provided by INFLIBNET to support the professional development of science teachers.
10. What are the considerations kept in mind when preparing a module for *e*-content ?

(4 × 2 = 8 marks)

Turn over

Part C

Answer any **four** *questions.*
Each question carries 4 *marks.*

11. Describe the teacher competencies identified by NCTE to make teachers professionally competent.
12. How do ICT tools contribute to the understanding of complex biological concepts ? Provide specific examples
13. What are the components of creativity, and how do they contribute to the creative process ?
14. Briefly explain the features and benefits of using free software in science education. Give examples of free software in science.
15. How do webinars revolutionise knowledge sharing and interactive communication in science education ?
16. Suggest strategies to utilise social media platforms to teach students science.

(4 × 4 = 16 marks)

Part D

Answer any **one** *question.*
The question carries 10 *marks.*

17. Discuss how the TPACK framework integrates technology, pedagogy, and content knowledge for effective teaching in science.
18. What is Learning Management System (LMS), and how does it facilitate online and blended learning in science ?

(1 × 10 = 10 marks)