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Name.....

Reg. No.....

523394

FOURTH SEMESTER B.Ed. DEGREE EXAMINATION, APRIL 2024

B.Ed.

EDU 13.12—PROFESSIONALIZING PHYSICAL SCIENCE EDUCATION

(2017 Scheme)

Time : Two Hours

Maximum : 40 Marks

Part A

Answer all questions.

Each question carries 1 mark.

1. Point out any *one* skill needed for a good mentor.
2. Suggest any *one* research journal in science education.
3. Who conducts the first stage of Science Olympiad ?
4. What do you mean by scientific literacy ?
5. Give any *two* features of *e*-content.
6. Mention any *one* use of wiki.

(6 × 1 = 6 marks)

Part B

Answer all questions.

Each question carries 2 marks.

7. Distinguish between science and technology.
8. Write the importance of concept map. Give one example for free software for concept mapping.
9. Suggest any *two* techno-pedagogical skills needed for developing an *e*-content in science.
10. List any *two* benefits of national and international professional organisations for science teachers.

(4 × 2 = 8 marks)

Turn over

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Part C

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

11. Discuss the different components of Techno-Pedagogic Content Knowledge.
12. Discuss the role of reflective practices in professional development.
13. As a science teacher, how will you eradicate superstitions in society ?
14. Discuss the role of social medias like whatsapp, facebook, and twitter in education in the present context.
15. Explain web 2.0 tools.
16. How does science contribute to technology ?

(4 × 4 = 16 marks)

Part D

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

17. What are the professional competencies needed for a Physical Science teacher. Discuss the different means for developing teaching competencies during the in-service period ?
18. Discuss the characteristics of gifted children. As a science teacher, what measures will you take to nurture gifted children ?

(1 × 10 = 10 marks)