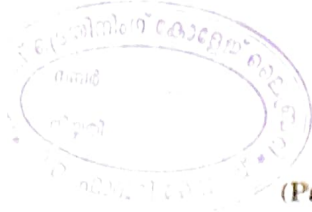


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FOURTH SEMESTER B.Ed. DEGREE EXAMINATION, APRIL 2020

B.Ed.

EDU 13.12—PROFESSIONALIZING PHYSICAL SCIENCE EDUCATION

Time : Two Hours

Maximum : 40 Marks

**Part A**

Answer all questions.

Each question carries 1 mark.

1. Define Technological Pedagogical Knowledge (TPK).
2. Name the major components of creative thinking.
3. Mention two advantages of in-service courses.
4. Write any two uses of video conferencing.
5. What do you mean by accountability?
6. List any two characteristics of teaching profession.

(6 × 1 = 6 marks)

**Part B**

Answer all questions.

Each question carries 2 marks.

7. Write a short note on M-learning.
8. Point out the responsibilities of Science teachers.
9. Cite two differences between Science and Technology.
10. What measures will you take to develop critical thinking in Science?

(4 × 2 = 8 marks)

**Part C**

Answer any four questions.

Each question carries 4 marks.

11. Discuss the role of Science teacher as mentor.
12. Enumerate the techno-pedagogical competencies of Physical Science teachers?
13. Explain the role of social media in learning Physical Science.
14. "Teacher can never truly teach unless he is still learning." Elucidate.

Turn over

15. Describe the challenges in using techno-pedagogy in a Physical Science class.
16. Define scientific literacy. Point out the characteristics of scientifically literate students.  
(4 × 4 = 16 marks)

#### Part D

*Answer any one question.*

*The question carries 10 marks.*

17. Describe the concept of e-content. With suitable illustrations, explain how it can be developed?
18. Describe TPCK framework and explain the steps involved in TPCK analysis of Physical Science.

(1 × 10 = 10 marks)