



25802847

QP CODE: 25802847

Reg No :

Name :

M.Ed. DEGREE(CSS) EXAMINATION, JUNE 2025

Fourth Semester

M.Ed

**Elective - ED820407 - ADVANCED METHODOLOGY AND PEDAGOGICAL
PRACTICES OF SCIENCE EDUCATION**

2019 Admission Onwards

7CB3120A

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. What do you mean by inductive inquiry?
2. Suggest any two home assignments you may give after teaching the topic 'environmental stewardship' for developing creative thinking among learners.
3. Define the term 'interdisciplinary approach'.
4. What are the components of blended learning strategy?
5. Mention few search engines that helps in Science learning.
6. Write the importance of Internal Evaluation.
7. What is a Project?
8. What is Rubrics?
9. What makes a great science teacher?
10. Define professional ethics.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Critically analyse "Creativity " domain put forward by Mc Cormack & Yager. Why is it important in Science education?
12. Evaluate the term "curriculum and it's elements" in science.
13. Discuss the implication of Piaget's Stages of development on education.





14. What is mean by PSI? Discuss in detail.
15. Examine the Scope of Generative Learning Model in Science Teaching.
16. Analyse the changing trend in assessment from paper-pencil tests to authentic assessment.
17. What is the role of a teacher in classroom management?
18. What are the strategies that teachers can use to reflect on their teaching practices?

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Explain the broad goals of teaching Science.
20. Discuss the role of NCERT in promoting quality of teacher education.
21. Critically examine the following approaches to Science Learning- a) Discovery Approach b) Inductive-deductive approach c) Issue Based Approach
22. Critically analyse the significance of 'continuing education' of teacher educators.

(2×5=10 weightage)

