(Pages : 4) **H – 2633**

Reg. No. : .....

Name : .....

Third Semester B.Ed. Degree Examination, October 2019

EDU 13.08 : EMERGING TRENDS AND PRACTICES IN PHYSICAL SCIENCE EDUCATION

(2015 Admission onwards)

Time : 2 Hours Max. Marks : 50

PART – A

I. Answer **all** questions by selecting the most appropriate **one** from the options given.

1. Which of the following is not a strategy used for gifted learners?

   (a) Acceleration (b) Double promotion

   (c) Ability grouping (d) Compensatory teaching

2. Which among the following is an examination for international selection?

   (a) GRE (b) KTET

   (c) GATE (d) NTSE

3. Which of the following is not related to Achievement test construction?

   (a) Weightage to content

   (b) Weightage to form of questions

   (c) Weightage to time

   (d) Weightage to objectives

P.T.O.

4. Among the following which is not a technopedagogic curriculum transaction material?

(a) Webinar (b) Virtual lab

(c) Video conferencing (d) Seminar

5. Point out the one which is not true with respect to reflective practices

(a) Helps to develop one's own personality

(b) Helps to develop professional growth

(c) Helps to fill the gap between theory and practice

(d) Helps to assess the learner

(5 × 1 = 5 Marks)

PART – B

II. Answer **all** questions in one word or one phrase.

6. Who developed concept mapping approach?

7. What does NTSE stands for?

8. Give one example for technopedagogic curriculum transaction material.

9. Write two process skills in science.

10. Schon and Kolb developed which model of practice.

(5 × 1 = 5 Marks)

PART – C

III. Answer **all** questions not exceeding in one paragraph. **Each** question carries **2** marks.

11. Explain jigsaw technique.

12. Explain the types of Rubrics.

13. Give a brief account of Digital text.

14. Write any two test items for assessing creative thinking skills of students.

15. Write a note on Experiential learning approach.

(5 × 2 = 10 Marks)

PART – D

IV. Answer **any four** not exceeding in one and half pages. **Each** question carries **5** marks.

16. Explain how we can provide science education for slow learners and gifted learners.

17. Develop a rubric for the assessment of performance of a teacher with respect to the criteria “Task related instruction”.

18. Explain any two learning situations for the development of e-content on “properties of Bases”.

19. Explain the different steps of Diagnostic test construction.

20. How will you practice peer observation as a reflective technique?

21. Give a brief account on :

(a) Concept mapping

(b) Circle learning.

(4 × 5 = 20 Marks)

PART – E

V. Answer **any one** question not exceeding 3 pages.

22. Construct an Achievement test for any topic from Physics/Chemistry, with suitable illustrations.

23. Describe the steps to develop an e-content on the topic “Surface Tension”.

(1 × 10 = 10 Marks)

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