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Reg. No. : .....

Name : .....

First Semester B.Ed. Degree Examination, November 2019

**EDU 05.8: PEDAGOGIC CONTENT KNOWLEDGE ANALYSIS – PHYSICAL  
SCIENCE**

(2019 Admission)

Time : 2 Hours

Max. Marks : 50

PART A

- I. Answer **all** questions by selecting the most appropriate **one** from the options given.
1. The correct sequence of Herbartian steps in lesson planning is
    - (a) Preparation, Presentation ,Comparison and Generalisation
    - (b) Presentation, Preparation, Application and Comparison
    - (c) Preparation, Presentation ,Comparison and Association
    - (d) Presentation, Preparation, Comparison and Generalisation
  2. Which of the following is not a component of the skill Stimulus variation?
    - (a) Focusing
    - (b) Pacing
    - (c) Gestures
    - (d) Voice modulation

P.T.O.

3. A statement which establishes a relationship between at least two concepts is a
  - (a) Process
  - (b) Law
  - (c) Theory
  - (d) Principle
  
4. The Tool kit to assist school communities to identify and align resources, promote collaborative planning and instruction, and enhance options for students at high risk of school failure is
  - (a) Google Map
  - (b) Thematic Map
  - (c) Resource map
  - (d) Topographic map
  
5. Graphic aids can be considered under
  - (a) Projected Aid
  - (b) Non projected Aid
  - (c) Activity Aid
  - (d) Improvised Aids

**(5 × 1 = 5 marks)**

#### PART B

- II. Answer **all** questions in one word or **one** phrase.
6. What do you mean by pedagogy?
7. Give one example for a fact.
8. List out any two teacher competencies.

9. List out any two learning aids that can be utilized by a competent teacher while transacting the concept of Circular motion.
10. List out any one advantage of workbook.

**(5 × 1 = 5 marks)**

### PART C

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

11. Prepare an introduction for a lesson on Refraction.
12. By taking suitable examples in Physics or Chemistry show how concepts are formed by the generalisation of facts.
13. Write any two applications of Fog index
14. What are the very essential pre requisites for learning the concept of Energy?
15. Teacher's handbook is a valuable teaching device. Why?

**(5 × 2 = 10 marks)**

### PART D

IV. Answer any **4** questions not exceeding in **one** and half pages. Each question carries **5** marks.

16. Give a pedagogic content knowledge analysis of any topic in Physics or Chemistry
17. Explain qualities of a text book based on Vogel's criteria.
18. How will you demonstrate to your students the difference between Exothermic and Endothermic reactions ?
19. Write the chalk board work that can be done on transformers.
20. Write any five learning outcomes for the topic Viscosity.
21. Explain the need of planning the instruction.

**(4 × 5 = 20 marks)**

## PART E

- V. Answer any **one** question not exceeding **3** pages.
22. Explain the need of including Microteaching skill practice in the B.Ed curriculum. Write a micro lesson plan on any one of the teaching skill on any topic of your choice.
23. Write a lesson plan for a period of 40 minutes on any topic in Physics or Chemistry

**(1 × 10 = 10 marks)**

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