

Reg. No. : .....

Name : .....

**First Semester B.Ed. Degree Examination, August 2021**

**EDU 05.9 : PEDAGOGIC CONTENT KNOWLEDGE ANALYSIS –  
NATURAL SCIENCE**

**(2019 Admission onwards)**

Time : 2 Hours

Max. Marks : 50

**PART – A**

Answer **all** questions.

1. Which of the following is a component of skill of probing questions?  
(a) Legibility (b) Refocussing  
(c) Voice Modulation (d) Focusing
2. What is the percentage of plasma in blood?  
(a) 55 (b) 92  
(c) 45 (d) 8
3. Which of the following incorporates ICT?  
(a) Bulletin board (b) Interactive board  
(c) Flannel board (d) White board
4. Name the calcium containing connective tissue that holds tooth in the sockets of gum.  
(a) pulp (b) dentine  
(c) cementum (d) enamel

P.T.O.

5. Which of the following is not considered as a core teaching skill?

- (a) stimulus variation                      (b) using blackboard  
(c) giving assignments                      (d) probing questions

**(5 × 1 = 5 Marks)**

**PART – B**

Answer in **1** or **2** sentences and **all** questions to be answered.

6. Write the relevance of nature calendar in biology teaching.
7. Give an example for specimen and name the lesson that can be effectively transacted using that specimen.
8. Write the pre-requisite needed by students to learn the topic “transport in plants”.
9. Write the advantages of LCD projector over OHP.
10. Give two examples for non-projected aids.

**(5 × 1 = 5 Marks)**

**PART – C**

Answer **all** questions.

11. Suggest two indicators that can be used while discussing about “Uses of fermentation”.
12. What is the role of observers in Micro teaching?
13. Give two enrichment activities for the unit ‘keeping diseases away’.
14. List any four pedagogical competencies.
15. Why link practice is important in teacher training?

**(5 × 2 = 10 Marks)**

## PART – D

Answer **any four** questions.

16. Elucidate the components of skill of stimulus variation.
17. Draw a chart showing types of simple plant tissues.
18. Explain the steps of Herbatian approach in lesson planning.
19. What are the different assessment techniques that can be used in classroom?
20. Write the significance of audio-visual aids in science learning.
21. Explain the concept of pedagogical content knowledge.

**(4 × 5 = 20 Marks)**

## PART – E

Answer **any one** question.

22. What is Planning for instruction? Explain different types of planning giving emphasis to their importance.
23. Analyse the content for the lesson-mitosis.

**(1 × 10 = 10 Marks)**

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