



(Pages : 2)

A – 2932

Reg. No. :

Name :

Second Semester B.Ed. Degree Examination, May 2016

(2015 Admn. Onwards)

**EDU 10.08 : TECHNO – PEDAGOGIC CONTENT KNOWLEDGE ANALYSIS :
PHYSICAL SCIENCE**

Time : 2 Hours

Max. Marks : 50

PART – A

Select the most appropriate option from those given in brackets. **(1×5=5 Marks)**

1. The idea of Pedagogical Content Knowledge was first described by
a) Crippen b) Koehler c) Lee Shulman d) Wetzel
2. e Twinning Portal is currently available in how many languages ?
a) 5 b) 25 c) 100 d) 250
3. According to Bruner, the stage at which knowledge is represented through visual or auditory images is called
a) Enactive stage b) Iconic stage c) Symbolic stage d) Visual stage
4. Pyramidal structure of learning hierarchy is the contribution of
a) Bruner b) Gagne c) Piaget d) Ausbel
5. The process of focusing on both dimensions like height and length simultaneously is called
a) Decentration b) Identity c) Reversibility d) Reciprocity

PART – B

Answer **all** questions in **one word/phrase/sentence**. **(5×1=5 Marks)**

6. Name any two phases of 5E Instructional Model.
7. Hierarchical diagrams indicating relationship between concepts is called
8. List TWO characteristics of a student having intra personal intelligence.
9. Explain Zone of Proximal development.
10. Define : Concept.

P.T.O.

A – 2932



PART – C

Answer **all** questions in **not** exceeding **one paragraph**. (5×2=10 Marks)

11. Differentiate between Progressive Differentiation and Integrative Reconciliation.
12. How can you promote Reflective thinking in students ?
13. Bring out the relevance of Blogging as a new media literacy.
14. What are the instructional effects of CAM ?
15. Discuss the major components involved in Creative Thinking.

PART – D

Answer **any four** questions in **not** exceeding **one and a half page** : (4×5=20 Marks)

16. Bring out the challenges in using Techno Pedagogy in a physical science class.
17. What are the important characteristics of Personalized System of Instruction ?
18. Explain Expository Organiser and Comparative Organiser with suitable examples from physical science.
19. Explain the functions served by IT @ school project in the state.
20. What do you mean by Programmed instruction ? What are the essential principles of programmed learning ?
21. Explain how CAI can enhance Science instruction.

PART – E

Answer **any one** question in **not** exceeding **three pages** : (1×10=10 Marks)

22. There is no single technological solution that applies for every teacher. Explain the relevance of the statement on the basis of the TPCK framework.
23. What do you mean by Models of Teaching ? Explain the Inquiry Training model with a suitable example.