G – 1061

Reg. No. : ....

Name : ....

Second Semester B.Ed. Degree Examination, April 2019
(2015 Scheme)
EDU 10.8 : TECHNO-PEDAGOGIC CONTENT KNOWLEDGE ANALYSIS-PHYSICAL SCIENCE

Time : 2 Hours   Max. Marks : 50

PART – A

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

   1) Which of the following model belongs to Information processing family ?

     a) Role play model   b) Advance organiser model

     c) Jurisprudential model   d) Contingency management model

   2) Who advocated theory of Multiple Intelligence ?

     a) Vygotsky   b) Skinner

     c) Gardner   d) Crowder

   3) Programmed Instruction is based on which theory of learning ?

     a) Stimulus-response theory   b) Operant conditioning

     c) Classical conditioning   d) Insight theory

   4) Which of the following acts as a means for instructional and professional growth of teachers ?

     a) Youtube   b) Scope Store

     c) Twitter   d) E-Twinning

   5) Focus gambling is a strategy identified by

     a) Gagne   b) Piaget

     c) Bruner   d) Vygotsky   **(5×1=5 Marks)**

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

6) Write the major components of a concept.

7) What is meant by bodily-kinesthetic intelligence ?

8) Distinguish between instructional effect and nurturant effect of models.

9) Give the name of any one blog for learning physical science at secondary level.

10) What is meant by OFSET in science teaching ?   **(5×1=5 Marks)**

PART – B

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

11) Mention any two basic principles of programmed learning.

12) Give an account of nurturant effect of concept attainment model.

13) What is TPACK ?

14) What is E-Twinning ?

15) Briefly describe zone of proximal development.   **(5×2=10 Marks)**

PART – C

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

16) Differentiate between linear programming and branched programming.

17) Explain the syntax of Inquiry training model.

18) How will you support reflective thinking in students ?

19) Give the implications of cognitive development theory of Piaget in teaching of science.

20) Briefly describe the science education in Australia.

21) Teacher as a techno pedagogue-substantiate.   **(4×5=20 Marks)**

PART – D

Answer **any one** question **not** exceeding **3** pages. **Each** question carries **10** marks.

22) According to constructivist view of learning knowledge is to be constructed. Explain your views on the basis of existing classroom learning.

23) Write a lesson plan for any topic based on any one of the following :

a) Advance Organiser Model   b) Concept Attainment Model

(1×10=10 Marks)

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