

(Pages : 3)

N – 6731

Reg. No. :

Name :

First Semester B.Ed. Degree Examination, June 2022

EDU 04.8 : THEORETICAL BASE OF PHYSICAL SCIENCE EDUCATION

(2019 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. The lowest level of cognitive domain is
 - (a) Knowledge
 - (b) Understanding
 - (c) Application
 - (d) Analysis
 2. Teaching Learning process is a journey from
 - (a) Concrete to abstract
 - (b) Simple to complex
 - (c) Known to unknown
 - (d) All of the above
 3. Which of the following is not a technique of teaching?
 - (a) Brain storming
 - (b) Role play
 - (c) Kindergarten
 - (d) Dramatization

P.T.O.

4. Which of the following is/are the limitations of teacher-centered approach of learning?
- I. There is no scope for debate and discussion among the students
 - II. It retards the creativity of children
 - III. Evaluation is mostly summative in nature
- (a) I and III (b) I and II
(c) II and III (d) I, II and III
5. Demonstration method of teaching is a
- (a) Learner centered method (b) Competency based method
(c) Subject centered method (d) Teacher centered method'

(5 × 1 = 5 Marks)

PART – B

- II. Answer **all** questions in **one** word or **one** phrase.
6. Write any two educational implications of behaviourism in science teaching at secondary level.
7. Name two important Historical civilizations in ancient development of science.
8. Give any two contributions of Albert Einstein.
9. Define scientific literacy.
10. Write am two qualities of a person having scientific attitude.

(5 × 1 = 5 Marks)

PART – C

- III. Answer **all** questions in not exceeding **one** paragraph.
11. List any four responsibilities of a science teacher.
12. What is meant by Simulation? Mention the advantages of simulation in a physical science class.

13. What is meant by science for sustainable development?
14. Write the objectives in hierarchical order under cognitive domain.
15. New knowledge to be given to pupils must be logically linked with their previous knowledge. Justify this statement with the relevant maxim of teaching.
(5 × 2 = 10 Marks)

PART – D

- IV. Answer any **four** questions in not exceeding **one and half** pages. Each question carries **5** marks.
16. Explain the Practical and recreational value of teaching physical science with suitable examples.
 17. Briefly explain the Problem solving method of teaching Physical Science.
 18. What is objective based instruction? How can you ensure that your instruction is objective based?
 19. Explain the role of teacher as a facilitator, researcher and a social resource with suitable examples.
 20. Briefly explain the pro-active, Interactive and Post active phases of teaching.
 21. Write a short note on Virtual Learning Environment.
(4 × 5 = 20 Marks)

PART – E

- V. Answer any **one** question in not exceeding **three** pages.
22. Science is both a process and product- Substantiate.
 23. Discuss the taxonomy of educational objectives proposed by Bloom with suitable examples.
(1 × 10 = 10 Marks)