

(Pages : 3)

H – 2737

Reg. No. :

Name :

First Semester B.Ed. Degree Examination, November 2019

EDU 04.8 : THEORETICAL BASE OF PHYSICAL SCIENCE EDUCATION

(2019 Admn.)

Time : 2 Hours

Max. Marks : 50

PART – A

- I. Answer **all** questions by selecting the most appropriate **one** from the options given.
1. Inductive method is advocated by
- (a) William Kilpatrick (b) Aristotle
- (c) Francis Bacon (d) John Dewey
2. The rules of Presenting the content to make them easy are called
- (a) Method of teaching (b) Maxims of teaching
- (c) Techniques of teaching (d) Teaching strategies
3. Which among the following is an integrated process skill?
- (a) Inferring (b) Communicating
- (c) Classifying (d) Interpreting

P.T.O.



4. Symposium is a type of
- (a) Discussion method (b) Lecture method
(c) Discovery method (d) Demonstration method
5. Attitudes and values are reflected by
- (a) Cognitive domain (b) Psychomotor domain
(c) Affective domain (d) Knowledge domain

(5 × 1 = 5 Marks)

PART – B

- II. Answer **all** questions in one word or one phrase.
6. Mention any two specifications of the objective 'understanding'.
7. What is VLE?
8. Write two contributions of any one eminent woman scientist.
9. Define scientific temper.
10. Give any two differences between aims and objectives.

(5 × 1 = 5 Marks)

PART – C

- III. Answer **all** questions in not exceeding **one** paragraph.
11. Explain the four attributes of scientific attitude.
12. Explain the nature of science.
13. Mention about any two emerging branches in science.
14. Explain the moral values of science.
15. Suggest the merits of learning history of science.

(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 maxims of learning.
 17. Define scientific literacy. Explain the characteristics of a scientifically literate person.
 18. Explain the tripolar relationship among objectives, learning experiences and evaluation.
 19. Explain the interdependency of process and product aspects of science.
 20. Briefly elucidate the contributions of eminent scientist A.P.J. Abdul Kalam.
 21. Explain the procedure of conducting a Brain Storming session.
- (4 × 5 = 20 Marks)**

PART – E

- V. Answer any **one** questions in not exceeding **three** pages.
22. Explain Yager and Mc Cormack Taxonomy of curricular objectives.
 23. Describe the steps in scientific method with suitable examples. Briefly explain the elements of scientific method.
- (1 × 10 = 10 Marks)**

