

**Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University) Coimbatore – 641 043**

Bachelor of Education Degree Examination – April 2018
IV Semester

Class : II B.Ed.

Time: 3 Hrs
Max. Marks: 100

15BEDP14 School Subject I : Professionalising Physical Science Education

Part – A **10 X 1 = 10**
Choose the correct answer

1. The apparent loss of weight of a body fully immersed in a liquid depends on
 - a. the density of the body
 - b. the volume of the body
 - c. the weight of the body
 - d. the height of the body
2. The spontaneous and continuous emission of rays is called
 - a. Radioactivity
 - b. Doppler effect
 - c. cosmic rays
 - d. Raman effect
3. Sharing of electrons between two atoms is called
 - a. Electro Valency
 - b. Covalency
 - c. Coordinate valency
 - d. Ionisation
4. Oil rises up the wick in a lamp because
 - a. oil is very light
 - b. oil is volatile
 - c. of the surface tension phenomenon
 - d. of the capillary action phenomenon
5. Conducting research related to day to day problems of educational practitioners is called
 - a. Action research
 - b. Applied research
 - c. Ethnographic research
 - d. Historical Research
6. Science club encourages
 - a. Learning by doing
 - b. Lecture method
 - c. Biographical method
 - d. Historical method
7. Conducting science quiz
 - a. improves knowledge
 - b. creates stress
 - c. develops tension
 - d. creates misunderstanding
8. On a field trip, as a teacher you would expect your students to
 - a. listen to others
 - b. go for shopping
 - c. observe the place and ask questions
 - d. learning nothing
9. The expansion of NCERT is
 - a. National Council for Educational Research and Training
 - b. National Committee for Educational Research and Training
 - c. National Conference for Educational Research and Training
 - d. National Conference for Educational Research and Teaching
10. The planned use of Information and Communication Technology for the delivery of training is called
 - a. E-learning
 - b. role playing
 - c. case study
 - d. programmed learning.

Part – B

5 X 6 = 30

Answer the following questions

Answer should not exceed 400 words or two pages

11. a. What is pedagogical analysis ?
(or)
11. b. Mention the characteristics of CBSE text book.
12. a. Mention the characteristics of NCERT books.
(or)
12. b. What is Vogel's spot check list?
13. a. What are the importance of e- content in science ?
(or)
13. b. Discuss the importance of script writing for e-content material.
14. a. What is applied research?
(or)
14. b. What is Action research?
15. a. Describe the steps in conducting field trips
(or)
15. b. Discuss the importance of cocurricular activities in science.

Part – C

5 X 12 = 60

Answer the following questions

Answer should not exceed 800 words or four pages

16. a. What is content analysis ? How will you analyse the science content ?
(or)
16. b. Explain the Importance of inclusion of Physics and Chemistry concepts in 8th and 9th standard Tamil Nadu State Board Text book.
17. a. What are the criteria for selection of science text book?
(or)
17. b. Discuss the characteristics of a good science text book.
18. a. Prepare an e- content module on any one topic in physical science.
(or)
18. b. Discuss the meaning and importance of e-content.
19. a. Prepare a proposal for action research in science.
(or)
19. b. What are variables ? Explain the different types of variables.
20. a. Discuss the importance of science exhibition . How will you organise science exhibition ?
(or)
20. b. Discuss the steps in organisation of science clubs.
