



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

Bachelor of Education Degree Examination – April 2019

IV Semester

Class : II B.Ed. / 2016 (R)

Time: 3 Hrs  
Max. Marks: 100

**17BEDP14/15BEDP14 School Subject I : Professionalising Physical Science  
Education**

**Part – A**

**10 X 1 = 10**

**Choose the correct answer**

1. Conducting Science Quiz
  - a. Improves knowledge
  - b. Creates stress
  - c. Develops tension
  - d. Creates misunderstanding
2. Sharing of electrons between two atoms is called
  - a. Electro valency
  - b. Covalency
  - c. Co ordinate valency
  - d. None of the above
3. Conducting day to day Research related problems of educational practitioners is called,
  - a. Action Research
  - b. Applied Research
  - c. Ethnographic Research
  - d. Historical Research
4. The spontaneous and continuous emission of rays is called
  - a. Doppler Effect
  - b. Radio Activity
  - c. Raman Effect
  - d. Cosmic Effect
5. On a field trip, you as a teacher would expect your students to
  - a. Listen to others
  - b. Go for shopping
  - c. Observe the place and ask questions
  - d. Learn nothing
6. The planned use of information and communication technology for delivery of training is called
  - a. E-learning
  - b. Role play
  - c. Case study
  - d. Programmed learning
7. E-learning is all about
  - a. Computers and Computing
  - b. Being technology-driven
  - c. Electronics
  - d. Experience
8. Donation of electrons from one atom to another atom is called
  - a. Electro valency
  - b. Co valency
  - c. Co ordinate Valency
  - d. None of the above
9. The apparent loss of weight of a body fully immersed in a liquid depends on
  - a. The volume of the body
  - b. The density of the body
  - c. The weight of the body
  - d. The height of the body
10. Teachers can reduce tension by
  - a. Planning their work
  - b. Taking complete rest
  - c. Harassing the students
  - d. Not going to the class

**Answer the following questions**

**Answer should not exceed 400 words or two pages**

11. a. What do you mean by pedagogical analysis ?  
(or)
11. b. What is content analysis ?  
(or)
12. a. What is Readability Index of Text book ?  
(or)
12. b. What is Fog Index Text book ?  
(or)
13. a. Explain e- content with examples.  
(or)
13. b. Explain the importance of e- content in physical science with examples.
14. a. Discuss independent and dependent variables with examples.  
(or)
14. b. Discuss pure research and applied research with examples.
15. a. Discuss the steps in Science Exhibition.  
(or)
15. b. Discuss the steps involved in conducting Excursion.

**Part – C**

**5 X 12 = 60**

**Answer the following questions**

**Answer should not exceed 800 words or four pages**

16. a. Compare the 9<sup>th</sup> standard Science content of Tamil Nadu State Board and CBSE Text book.  
(or)
16. b. Critically analyse 9<sup>th</sup> standard Physics content of Tamil Nadu State with illustrations.
17. a. Discuss the characteristics of Science Text Book.  
(or)
17. b. How will you select Science Text Book ?  
(or)
18. a. Discuss the phases involved in e-content development in Science.  
(or)
18. b. Prepare an e-content module on any topic in Physical Science for Std 1X.
19. a. What are the types of Research ? Discuss the steps in Action Research.  
(or)
19. b. Prepare a proposal for Action Research in Science.
20. a. How will you organise Science Club ?  
(or)
20. b. List out some of the co curricular activities .Discuss its uses of cocurricular activities for science teaching.