

**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

**15BEDB14 School Subject I : Professionalising Biological Science Education**

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

1. Which of the following could be subjected to a textual content analysis ?
  - a. Interview transcripts
  - b. Newspaper articles
  - b. Song lyrics
  - d. All of the above
2. In the content analysis the theme is
  - a. A grouping of codes
  - b. A head of analysis
  - c. A conclusion
  - d. A grouping of segments
3. Textbooks plays an important role in
  - a. teaching
  - b. learning
  - c. teaching and learning
  - d. none of the above
4. If the textbook is not perfect and complete the science students should have to use it as a
  - a. blue print
  - b. guide book
  - c. an outline
  - d. all the above
5. The process of instructional designing broadly consists of
  - a. determining the current status of learner understanding
  - b. determining the end goal of the instructional material
  - c. creating some intervention to assist the transition
  - d. all of the above
6. Technical reusability of e-content is concerned with
  - a. standardization of initiative
  - b. intellectual property protection
  - c. knowledge transfer
  - d. the various kinds of tools used to support the e-content
7. Which of the following is not a way to manipulate an independent variable?
  - a. Presence technique
  - b. Amount technique
  - c. Type technique
  - d. Random technique
8. In an experimental research study, the primary goal is to isolate and identify the effect produced by the
  - a. Dependent variable
  - b. Extraneous variable
  - c. Independent variable
  - d. Confounding variable
9. A field trip by a group of people to a place away from their normal environment is known as
  - a. excursion
  - b. journey
  - c. expedition
  - d. all the above
10. An underutilised Tool for Promoting Science Communication Activities in School is
  - a. science club
  - b. field trip
  - c. exercise
  - d. content

**Part – B**

**5 X 6 = 30**

**Answer the following questions**

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

11. a. Discuss the stages of content analysis.  
(or)  
11. b. Explain the different types of content analysis.
12. a. Mention the uses of the text book.  
(or)  
12. b. How can Textbook Analysis help your students ?
13. a. Bring out the advantages of e-content development.  
(or)  
13. b. Describe the ways to design e-content.
14. a. What are the good qualities of a good research ?  
(or)  
14. b. Describe the different types of variables.
15. a. Mention the factors governing the success of science club.  
(or)  
15. b. What are the importance of experimental project.

**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? Explain its importance for teaching biological science.  
(or)  
16. b. Discuss the steps and procedures of content analysis in Pedagogic subjects.
17. a. Discuss the importance, characteristics and qualities of a good text-book.  
(or)  
17. b. "Textbooks are excellent servants but very bad masters" - Explain.
18. a. Explain the phases involved in the development of e-content.  
(or)  
18. b. Describe how will you write a script for an e-content module.
19. a. Prepare research proposal for a mini project in Biological Science.  
(or)  
19. b. Discuss the different types of research.
20. a. As a biology teacher how will you organise an educational tour.  
(or)  
20. b. Discuss the benefits and advantages of extra curricular activity in science teaching.

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