



**Avinashilingam Institute for Home Science and Higher Education for Women**  
(Deemed to be University under Category A by MHRD, Estd. u/s 3 of UGC Act 1956)  
Re-accredited with A+ Grade by NAAC. Recognised by UGC Under Section 12B  
Coimbatore - 641 043, Tamil Nadu, India

Bachelor of Education/ B.Ed. Special Education (VI/ HI) Degree Examination – July 2020  
IV Semester

Class: II B.Ed./ II B.Ed. Special Education (HI)

Time : 2 Hours

Max. Marks : 50

**18BEDB14/18BDSB14 School Subject I : Professionalizing Biological  
Science Education**

**Course Outcomes:**

CO1: Describe the importance of pedagogical content analysis

CO2: Compare and interpret the content of different boards of education

CO3: Analyse and evaluate Text Books

CO4: Design and develop e - content material

CO5: Conduct an action research

CO6: Organise science exhibitions and science fairs

**Part A** **10 x 1 = 10**  
**Choose the Correct Answer**

1. The pedagogical analysis includes \_\_\_\_\_ analysis. CO1 K2
  - a. Contextual
  - b. Learner
  - c. Task and content
  - d. all the above
2. Principles of pedagogy is CO1 K2
  - a. motivation
  - b. exposition
  - c. direction of activity
  - d. all the above
3. A textbook is a CO3 K1
  - a. primary source
  - b. private good
  - c. inspiring knowledge
  - d. all the above
4. Textbooks should be based on CO3 K2
  - a. curriculum
  - b. content
  - c. syllabus
  - d. all the above
5. Analysis in e-content is not a \_\_\_\_\_ analysis. CO4 K2
  - a. contextual
  - b. chemical
  - c. task
  - d. content
6. The process of instructional designing broadly consists of CO1 K2
  - a. determining the current status of learner understanding
  - b. defining the goal of the instructional material
  - c. creating some 'intervention' to assist the transition
  - d. all the above
7. Fundamental research reflects the ability to CO5 K3
  - a. expound the new principles
  - b. synthesize new ideals
  - c. evaluate the existing material concerning research
  - d. study the existing literature regarding various topics
8. Which one of the following is not the characteristic of research? CO5 K2
  - a. Research is systematic
  - b. Research is not passive
  - c. Research is not a process
  - d. Research is problem oriented

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|---|-------------------------|--------|
| 9. Values of co-curricular activities are                 |                         | C06 K1 |
| a. educational values                                     | b . recreational values |        |
| c. cultural values  | d. all the above        |        |
| 10. The sum of curricular and co-curricular activities is |                         | C06 K1 |
| a. syllabus   | b. curriculum           |        |
| c. pedagogy   | d. aim                  |        |

**Part B**

**3X6=18**

**Answer any three of the following  
Each answer should not exceed 400 words or two pages**

- |  |        |
|--|--------|
| 11. Mention the advantages of pedagogic analysis.                              | C01 K1 |
| 12. Describe the components of pedagogic analysis.                             | C01 K1 |
| 13. What is the role of textbooks in education?                                | C02 K2 |
| 14. What is the purpose of a textbook?   | C02 K2 |
| 15. What are the different types of content authoring tools?                   | C03 K2 |
| 16. What are the objectives of e-content development?                          | C03 K2 |
| 17. What are the advantages of Action Research?                                | C04 K1 |
| 18. What is the importance of action research?                                 | C04 K1 |
| 19. What are the advantages of organising a field trip for students?           | C05 K2 |
| 20. Mention the need, significance and importance of co-curricular activities. | C05 K2 |

**Part C**

**2X11=22**

**Answer any two of the following  
Each answer should not exceed 800 words or four pages**

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|---|--------|
| 21. How pedagogy serves effective teaching?   | C01 K3 |
| 22. Discuss the history of pedagogic analysis.  | C01 K2 |
| 23. Enumerate the principle for quality textbooks.  | C02 K2 |
| 24. Analyse the strategies to use textbooks effectively in class.   | C02 K3 |
| 25. Discuss the different quadrant of e-content development.  | C03 K2 |
| 26. Describe the process, steps and responsibilities in development of e-content module.                            | C03 K2 |
| 27. Describe the different types of action research design.   | C04 K2 |
| 28. What is research? Describe and explain its types.   | C04 K2 |
| 29. Define co-curricular activities. Mention the advantages and criteria for selection of co-curricular activities. | C05 K2 |
| 30. How will you organize a Science Club? Mention the values of a Science Club.                                     | C05 K3 |

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