



Murugan

**Avinashilingam Institute for Home Science and Higher Education for Women**

(Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD)  
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/II) Degree Examination - May 2022**  
**IV Semester**

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

Time : 3 Hours  
Max. Marks : 100

**18BEDB14 / 18BDSB14 School Subject I: Professionalising  
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**  
**Choose the Correct Answer**

10 x 1 = 10

1. Pedagogy is the study of  
a. education  
b. learning process  
c. guiding students  
d. teaching methods  
CO1 K1
2. Which one of the following is not a part of the 'interactive stage of pedagogical analysis'?  
a. Giving feedback  
b. Determining tools for achievement of learning outcomes  
c. Deciding approaches of stimulus presentation  
d. Deciding on expected learner's responses  
CO1 K4
3. The external criterion for textbook is  
a. content accuracy  
b. good binding  
c. language  
d. structure  
CO3 K1
4. What is the use of text book in a class?  
a. To achieve learning objectives in a class  
b. To delimit what is to be taught  
c. To explain ideas and concepts  
d. Set new standards  
CO3 K2
5. This is a media presentation over internet.  
a. Webcasting  
b. Video conference  
c. Live television broadcast  
d. Offline presentation  
CO4 K1
6. Which is the first step in the life cycle of e-content development?  
a. Implementation  
b. Evaluation  
c. Analysis  
d. Design  
CO4 K2
7. Attributes of objects, events or things which can be measured are called  
a. qualitative measure  
b. data  
c. variables  
d. hypothesis  
CO5 K2
8. How do you judge the depth of any research?  
a. By total expenditure on research  
b. By research duration  
c. By research title  
d. By research objectives  
CO5 K4
9. Why should co-curricular activities be organized in schools?  
a. It helps institution to get fame  
b. It helps in the overall development of child  
c. It helps justification of fee collection  
d. It is important for those students who do not take interest in study  
CO6 K4
10. Which one of the following is a co-curricular activity?  
a. Blackboard  
b. Science Fair  
c. Text book  
d. Audio-visual aids  
CO6 K1

**Part B**

**5 x 6 = 30**

**Answer ALL questions**

**Each answer should not exceed 400 words or two pages**

- 11.a. Point out the importance of pedagogical analysis. CO1 K2  
(or)
- 11.b. Examine the merits and demerits of high school science textbook. CO2 K4
- 12.a. As a biology teacher, how effectively you use text book in teaching learning process. CO3 K3  
(or)
- 12.b. Describe the qualities of a good text book. CO3 K2
- 13.a. Generalize the need and importance of e-contents in the present context of teaching and learning. CO4 K4  
(or)
- 13.b. Elucidate the phases involved in e-content development. CO4 K2
- 14.a. List out the characteristics of a good research. CO5 K2  
(or)
- 14.b. Describe the procedure to conduct action research. CO5 K2
- 15.a. Highlight the significance of co-curricular activities in science. CO6 K4  
(or)
- 15.b. Compare and contrast field trip and study tour as co-curricular activities. CO6 K5

**Part C**

**5 x 12 = 60**

**Answer ALL questions**

**Each answer should not exceed 800 words or four pages**

- 16.a. Discuss the conceptual overview of biology content portion in 8<sup>th</sup> standard text book of Tamilnadu. CO2 K4  
(or)
- 16.b. Analyze the biology content in the 9<sup>th</sup> standard text book of Tamilnadu in the application aspect. CO2 K4
- 17.a. Explain the categories of text book on value perspective. CO3 K2  
(or)
- 17.b. Justify the need and importance of the text book highlighting the merits and demerits. CO3 K5
- 18.a. Elaborate the process of script writing in developing an e-content. CO4 K4  
(or)
- 18.b. Draft an e-content module for a topic of interest in biology at high school level. CO4 K6
- 19.a. Elaborate the variables involved in a research. CO5 K2  
(or)
- 19.b. Formulate a research project proposal with necessary steps involved in it. CO5 K6
- 20.a. Analyze the organisation and activities of Science Club in schools. CO6 K4  
(or)
- 20.b. Explain the various steps involved in conducting a science fair in school. CO6 K2

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