



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

**18BEDP14 / 18BDSP14 School Subject I: Professionalising  
Physical Science Education**

**Course Outcomes:**

- CO1: Analyse the content and pedagogy of text books  
CO2: Analyse and evaluate text books  
CO3: Design and develop e - content material  
CO4: Conduct an action research  
CO5: Organise science exhibitions and science fairs

**Part A  
Choose the Correct Answer**

10 x 1 = 10

1. Science is a \_\_\_\_\_ knowledge learning to success. CO1 K1  
a. developed b. systematized  
c. observed d. created
2. Who gave the concept of pedagogy analysis? CO1 K1  
a. Jean Houssaya b. Nikola  
c. Marie cure d. Thomas
3. Pedagogical analysis is related to the methodology for process of instruction. CO1 K2  
a. Learning b. Teaching c. Instruction d. Thinking
4. Which is not a Components of text book analysis? CO2 K2  
a. Content b. Structure c. Language d. Depth
5. The teaching tool that presents the subject matter defined by curriculum is CO2 K2  
a. Course book b. Reference book c. Text book d. Standard book
6. Point out the odd one. CO3 K4  
a. Image b. Text c. Animations d. Software
7. Who is the father of action research? CO4 K1  
a. Hurt Lewin b. Louis c. Issac d. Leonhard Euler
8. Independent variable is the CO4 K2  
a. cause b. effect c. outcome d. manipulation
9. Select the community centered resource in science teaching. CO5 K4  
a. Text book b. Science Club c. Field trip d. Excursion
10. Which is not a co-curricular activities in Science? CO5 K1  
a. Quiz b. Debate c. e-content d. Science Fair

**Part B****5 x 6 = 30****Answer ALL questions****Each answer should not exceed 400 words or two pages**

- 11.a. What is pedagogical analysis? Justify the advantages of pedagogical analysis. CO1 K5  
(or)
- 11.b. Explain the steps of pedagogical analysis. CO1 K2
- 12.a. How do you conduct textbook analysis? CO2 K6  
(or)
- 12.b. Discuss the criteria and objectives of text book analysis. CO2 K2
- 13.a. Explain the need and importance of e- Content Development. CO3 K2  
(or)
- 13.b. Explain the script writing for e-content material. CO3 K2
- 14.a. List out the variables with an example. CO3 K2  
(or)
- 14.b. What is research? Mention its characteristics. CO4 K2
- 15.a. Discuss about science fair and exhibition. CO5 K2  
(or)
- 15.b. Explain about science club and its functions . CO5 K4

**Part C****5 x 12 = 60****Answer ALL questions****Each answer should not exceed 800 words or four pages**

- 16.a. Categorize the content of the Physics and Chemistry in 8<sup>th</sup> standard Science book of Tamil Nadu State and give your explanation. CO1 K4  
(or)
- 16.b. Evaluate the pedagogical aspects of physics and chemistry in 9<sup>th</sup> standard Science book of Tamil Nadu State CO1 K5
- 17.a. Explain about Vogel's spot check list and Hunter's Score card. CO2 K4  
(or)
- 17.b. Discuss the factors needed to analyse that NCERT science book. CO2 K2
- 18.a. Explain in detail the phases involved in e - content development. CO3 K2  
(or)
- 18.b. Discuss the e-content for any one of the topic in Physics. CO3 K6
- 19.a. Interpret the types of research. CO4 K4  
(or)
- 19.b. What is action research? Elaborate the steps of action research with an illustration. CO4 K4
- 20.a. Explain the modes of popularisation and propagation of Science. CO5 K4  
(or)
- 20.b. Discuss about the co curricular activities in Science. CO5 K2

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