



Murugesu

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 Degree Examination – May 2023
IV Semester

Class : II B.Ed.

Time : 3 Hours
Max. Marks : 100

21BEDP14 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: Sense problems and find out solutions by conducting different types of research
CO5: Organise different co-curricular activities to popularize science among students and society

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

1. Application, Analysis and Synthesis are example of CO1 K2
a. higher order thinking skills b. lower order thinking skills
c. declarative knowledge d. procedure knowledge
2. Understanding level of teaching includes CO1 K2
a. memory b. aptitude c. attitude d. creativity
3. Good text books are excellent CO2 K1
a. guide b. teaching aid c. tools d. material
4. _____ is a example of E-content. CO3 K2
a. Text book b. Educational video content
c. e-commerce d. e-journals
5. A media presentation over internet is CO3 K3
a. web casting b. video conference
c. live television broadcast d. offline presentation
6. Which of the following purposes demands action research? CO4 K2
a. Developing a theory b. Writing a thesis
c. Solving a classroom d. Testing a theory
7. What is the correct sequence of action in conducting an intervention-based action research in education? CO4 K2
a. act, observe, plan, and reflect b. plan, act, observe and reflect
c. observe, plan, reflect and act d. reflect, observe, plan and act
8. The curricular and co-curricular activities are the part of CO5 K3
a. syllabus b. lesson plan c. evaluation d. curricular
9. Co-curricular activities should be organized in schools as CO5 K3
a. it helps institution to get fame
b. it helps in the overall development of child
c. it helps in the justification of fees collection
d. it is important for those students who do not take interest in studies
10. In this method students are trained in scientific method. CO5 K2
a. Project method b. Lecturer method
c. Laboratory method d. Experiment and demonstration method

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

11. a. Explain the steps of analysing science text book. CO1 K2
(or)
11. b. Describe the meaning and need for content analysis. CO1 K2
12. a. Examine the criteria for text book selection. CO2 K1
(or)
12. b. Enumerate the use of text books outside the classroom. CO2 K1
13. a. Explain the importance of e-content. CO3 K3
(or)
13. b. How do you write a script for e-content? Illustrate. CO3 K1
14. a. Explain the types of variable with examples. CO4 K2
(or)
14. b. Describe the procedure to conduct action research. CO4 K2
15. a. Sketch the use of co-curricular activities for science learning. CO5 K3
(or)
15. b. Differentiate between the modes of popularization and propagation of science. CO5 K4

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

- 16.a. Explain the five pedagogical approaches with examples. CO1 K3
(or)
- 16.b. Describe the steps and importance and of pedagogical analysis in science teaching and learning. CO1 K2
- 17.a. Describe the use of Hunter's score card and Vogel's spot checklist. CO2 K2
(or)
- 17.b. Discuss the role of NCERT and SCERT in designing text books. CO2 K2
- 18.a. Discuss different types of phases involved in e-content development with examples. CO3 K3
(or)
- 18.b. Explain different types of e- content which can be used for science teaching. CO3 K2
- 19.a. Explain the different types of research with examples. CO4 K3
(or)
- 19.b. Classify the characteristic of the research with example. CO4 K4
- 20.a. Illustrate the science club organization and its activities. CO5 K4
(or)
- 20.b. Enumerate the importance of field trips for school students. Explain the steps involved in planning and execution of the field trip. CO5 K1
