



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 Degree Examination – January 2021

III Semester

Class: II B.Ed.

Time : 3 Hours

Max. Marks : 100

18BEDB13 School Subject I: Curriculum and Resources in Biological Science Education

Part A

10 x 1 = 10

Choose the Correct Answer

- The term 'Curriculum' in the field of education refers to
 - overall experiences gained by students on everyday basis through various programmes of school
 - teaching and evaluation
 - methods of teaching and the content to be taught
 - text material to be used in the class
- The curriculum organization used for different concepts at the same class is
 - horizontal
 - vertical
 - logical
 - none of the above
- An effective teaching aid is one which
 - is colourful and good looking
 - activates all faculties
 - is visible to all students
 - is easy to prepare and use
- The audio-visual materials are characterised with
 - concreteness
 - dynamic interest
 - clarity
 - all the above
- The desire to maintain a safe laboratory begins with
 - risk
 - accidents
 - prevention
 - emergency
- Which of the following protects the researcher and his clothes from hazardous and hot chemicals?
 - Fire extinguisher
 - Face shield and lab coat
 - Sand in the bucket
 - None of the above
- The teacher can make the students use library effectively by
 - asking them to write about the books they have read
 - having discussions based on the reading
 - publishing the writings of students in school magazine
 - all the above
- While selecting good standard books for a science library it is necessary that a science teacher should
 - know the recent developments in biology
 - go for approval of nominated selection committee
 - visit local dealers and make the selection
 - all the above
- Which one of the following statements is correct in the context of multiple-choice type questions?
 - They are more objective than true false type questions
 - They are less objective than essay type questions
 - They are more subjective than short answer type questions
 - They are more subjective than true-false type questions
- Continuous and comprehensive evaluation refers to
 - School based evaluation of teachers
 - School based evaluation of students
 - School based evaluation of students and teachers development
 - School based evaluation that covers all aspects of students development

Part B

5 x 6 = 30

Answer ALL questions

Each answer should not exceed 400 words or two pages

- 11.a. Explain the principles involved in constructing biology curriculum for schools.
(or)
- 11.b. Evaluate the role of nature study in biology curriculum.
- 12.a. What are audio-visual aids? Why are they important in learning of Biology?
(or)
- 12.b. Explain the method of preparation of any two teaching aids in Biology.
- 13.a. Describe the important rewards that are to be maintained in a Biology laboratory.
(or)
- 13.b. Explain safety management in Biology laboratory.
- 14.a. Highlight the significance of science library for teaching science.
(or)
- 14.b. Give the criteria in selection and collection of books for school science library.
- 15.a. Describe the salient features of Continuous and Comprehensive Evaluation.
(or)
- 15.b. What is a blue print? Describe its dimensions.

Part C

5 x 12 = 60

Answer ALL questions

Each answer should not exceed 800 words or four pages

- 16.a. Discuss the various approaches to curriculum organization.
(or)
- 16.b. Analyze the important efforts taken in India and Abroad to upgrade the school Biology curriculum.
- 17.a. List out the projected aids that are commonly used in Biology classroom teaching and give their advantages.
(or)
- 17.b. Write short notes on the following:
i) Aquarium ii) Vivarium iii) Terrarium
- 18.a. Explain the procedure for procurement of equipments for a Biology laboratory.
(or)
- 18.b. As a science teacher, how will you effectively plan and organise a Biological science laboratory.
- 19.a. Explain how a science library is organised.
(or)
- 19.b. Analyze the various resources available to access digital information that could be facilitated through science library.
- 20.a. Discuss the steps involved in construction and administration of achievement test in Biology.
(or)
- 20.b. Explain the different forms of objective type test items with suitable illustration.
