



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

(Deemed to be University under Category A by MHRD, Estd. v/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 – November 2019

I Semester

Class: I B.Ed.

Time: 3 Hours

Max. Marks: 100

### 18BEDB11 School Subject I: Introduction to Biological Science Education

Course Outcomes:

- CO1: list out the scope of learning biological science
- CO2: identify the characteristics of a person with scientific attitude and scientific temper
- CO3: Identify and facilitate development of scientific attitudes in learners
- CO4: compare the functioning of different scientific organisations
- CO5: formulate the inter relationship of science and other subjects using illustrations
- CO6: compose an essay on the biographies of scientists/dramatise the life history of scientists

CO7: demonstrate the qualities required for a science teacher

CO8: to bridge the gap between theory and practice through hands-on experience in teaching Biological Science

#### Part A

10 X 1 = 10

#### Choose the Correct Answer

1. Scientific method of inquiry and scientific attitude indicate the \_\_\_\_\_ of Science.  
a. product  
b. process  
c. nature  
d. generalisation  
CO1K2
2. The \_\_\_\_\_ is experimentally proved.  
a. concept  
b. fact  
c. theory  
d. law  
CO1K2
3. Correlations is a \_\_\_\_\_ type.  
a. logical  
b. empirical  
c. incidental  
d. formal  
CO2K1
4. The ideas, theory and facts are consists of  
a. Language  
b. Science  
c. History  
d. Geography  
CO2K1
5. The word taxonomy means  
a. assumption  
b. manipulation  
c. organization  
d. classification  
CO3K1
6. \_\_\_\_\_ is the ability to think, create or do something new or original.  
a. Utility  
b. Creativity  
c. Productivity  
d. Flexibility  
CO3K2
7. Vaccines for rabies is developed by  
a. Louis Pasteur  
b. Robert Koth  
c. Charles Darwin  
d. Luc Montagier  
CO4K1

8. \_\_\_\_\_ is a system of alternate schools of gifted students in India. CO4K1
- a. Jawahar Navodaya Vidyalayas b. Kendriya Vidyalayas  
c. Kasturba Gandhi Balika Vidyalayas d. Adarsha Vidyalayas

9. Teaching is a \_\_\_\_\_ profession. CO5K1
- a. excellent b. foremost  
c. noble d. supreme

10. Providing Pre-service and In-service training to the teachers is the main objective of CO5K2
- a. NCERT b. NPTEL  
c. NCF d. NPE

**Part B** 5 X 6 = 30

**Answer the following questions**

**Answer should not exceed 400 words or two pages**

- 11a. Examine the importance of science as a school subject. CO1K2  
(or)
- 11b. Outline the Values of teaching Science with special reference to Biology. CO1K4
- 12a. Classify the types of Correlation with suitable examples. CO2K4  
(or)
- 12b. Show how the Biological Science is correlated within the subject. CO2K3
- 13a. Identify the Values of teaching Biological Science. CO3K2  
(or)
- 13b. Discuss about the Broad National Goals of Science. CO3K2
- 14a. Describe about the salient features of Navodaya Vidyalaya. CO4K4  
(or)
- 14b. Point out the objectives of NCERT. CO4K3
- 15a. List down the teacher competencies mentioned by NCTE. CO5K3  
(or)
- 15b. Focus on any three Internet resources which provide professional growth of a science teacher and present its benefits. CO5K4

**Part C** 5 X 12 = 60

**Answer the following questions**

**Answer should not exceed 800 words or four pages**

- 16a. Natural Science is a combination of both a process and a product. Critically analyze the statement. CO1K4  
(or)
- 16b. Organize a program for developing Scientific Attitude among students. CO1K6
- 17a. Determine the ways and means adopted by a Biology teacher to follow interdisciplinary approach in their teaching. CO2K5  
(or)
- 17b. Choose a topic in Biology and correlate it with Mathematics, Physics and Chemistry. CO2K5

- 18a. Discuss Bloom's Taxonomy of Educational Objectives and its importance. CO3K2  
(or)
- 18b. Explain the Aims and Objectives of teaching Science. CO3K4
- 19a. Appraise the Landmarks in the development of Science Education in India. CO4K5  
(or)
- 19b. Record a brief account on contributions of great Biologists. CO4K3
- 20a. Teaching is a noble profession that shapes the character, caliber and future of an individual – Justify it. CO5K5  
(or)
- 20b. Summarize the role of NCERT and SCERT in the professional growth of a teacher. CO5K2

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