



Neeraj

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 2024

IV Semester

Class : II B.Ed.
School Subject : Biological Science and English

Time : 3 Hours
Max. Marks : 100

**22BEDB14 School Subject I: Professionalising Biological
Science Education**

Course Outcomes:

CO1: Describe the importance of pedagogical content analysis and interpret the content of different boards of education

CO2: Analyze and evaluate textbooks

CO3: Design and develop e-content material

CO4: Conduct action research

CO5: Organise science exhibitions and science fairs

Part A

10 X 1 = 10

Choose the Correct Answer

1. Plants that prevent soil erosion are
a. algae b. fungi c. bryophytes d. Pteridophytes CO1 K2
2. Main organ of respiration in human body is
a. stomach b. lungs c. heart d. spleen CO1 K4
3. _____ is an example of Assemble E-content.
a. E-journals b. Word documents c. Slide Presentation d. None of the above CO2 K6
4. E- content is dissimilated through
a. electronic devices b. internet c. both a and b d. b only CO2 K2
5. Text books are helpful for _____ teaching.
a. individualized b. collective c. group d. none of the above CO3 K5
6. Vogel's Spot Check Textbook Evaluation scale is
a. fifteen b. ten c. eight d. five CO3 K2
7. _____ is the major attribute of Correlation Analysis.
a. Association among variables b. Difference among variables
c. Regression among variables d. Variations among variables CO4 K4
8. The data of research is
a. qualitative b. quantitative c. both a and b d. none of the above CO4 K3
9. _____ is a co-curricular activity in science teaching.
a. Black board b. Science fair c. Text book d. Audio – visual aids CO5 K1
10. This is an example of field trip.
a. Book b. Panchayat Guar c. Map d. Glop CO5 K1

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

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|--|--------|
| 11.a. Explain the components of Nephron.
(or) | CO1 K1 |
| 11.b. List out the medical uses of Honey. | CO1 K2 |
| 12.a. Enumerate the characteristics of Text Book.
(or) | CO1 K2 |
| 12.b. Point out the Need and importance of Text Book. | CO1 K4 |
| 13.a. Explain the Phases in E-content.
(or) | CO3 K2 |
| 13.b. Compose a script writing for any E-content. | CO3 K3 |
| 14.a. Differentiate between applied and action Research.
(or) | CO4 K6 |
| 14.b. Trace out the characteristics of Research. | CO4 K2 |
| 15.a. Examine about nature rambling and nature calendar.
(or) | CO5 K2 |
| 15.b. How co-curricular activities helps in all round development of the child? Justify. | CO5 K3 |

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

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| 16.a. Give an account of sources of organic resources for vermicomposting.
(or) | CO1 K2 |
| 16.b. Write about the human axial skeleton, giving suitable labelled diagram. | CO1 K6 |
| 17.a. Discuss the factors to be kept in view while selecting a text book.
(or) | CO2 K3 |
| 17.b. Examine the process of selecting a text book. | CO2 K3 |
| 18.a. Define - E-Content. How it influences Biological Science Education?
(or) | CO3 K2 |
| 18.b. Design an E-content module on any topic in Biological Science for Std VII. | CO3 K2 |
| 19.a. What is the meaning of Research? Explain about different Types of variable.
(or) | CO4 K4 |
| 19.b. Prepare a mini Proposal for Action Research. | CO4 K5 |
| 20.a. What is your opinion about on Science club? How would you utilize the science club in your school.
(or) | CO4 K2 |
| 20.b. Discuss the role of Science fair in developing children's scientific outlook. | CO5 K5 |
