

21. List the demerits of project method of teaching in biology.
 22. State the educational uses of the computer.
 23. Explain, 'Team Teaching'.
 24. What do you mean by 'Pedagogy'?
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6020115

B.Ed. DEGREE EXAMINATION, MAY 2016.

First Year – Non-Semester

Education

Optional : PEDAGOGY OF BIOLOGICAL
SCIENCE – PART I

(From 2015–2016 onwards)

Time : Three hours

Maximum : 80 marks

PART A — (2 × 10 = 20 marks)

Answer BOTH the questions not exceeding
500 words each.

1. (a) Explain the importance of multimedia in teaching biological science at high school level.

Or

- (b) Explain the various steps involved in constructing a good achievement test in Biology?

2. (a) Describe the objectives of teaching biology at school level with special reference to Bloom's cognitive objectives.

Or

- (b) What is unit plan? Prepare a unit plan in any topic in biology at higher secondary level.

PART B — ($8 \times 5 = 40$ marks)

Answer any EIGHT questions not exceeding 150 words each.

3. Write down the defects in the present day biological science curriculum.
4. Explain with examples how biological concepts are correlated with physics.
5. Differentiate specific objectives from general objectives.
6. Bring out the role of teachers in curriculum development.
7. Briefly explain the components of skill of explaining with suitable examples.
8. What are characteristics features of a good library?
9. How will you organize science club in your school and mention its advantages?

10. How will you use historical method to teach biology at high school level?

11. What is individualised instruction and list any two types of individualised instruction?

12. Mention the purpose of tutorial mode on CAI.

13. What are the steps involved in lesson planning?

14. How will you analyze the content in science books at 6th standard level?

PART C — ($10 \times 2 = 20$ marks)

Answer ALL the questions not exceeding 50 words each.

15. How will you develop aesthetic sense among students?
16. What is constructivism in science education?
17. What do you mean by curriculum design?
18. List the components skill of stimulus variation.
19. Mention any two criteria for book selection in your school library.
20. What are science fairs?

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B.Ed. DEGREE EXAMINATION, APRIL/MAY 2017.

First Year — Non-Semester

Education

**OPTIONAL : PEDAGOGY OF BIOLOGICAL
SCIENCE : PART 1**

(From 2015-16 onwards)

Time : Three hours

Maximum : 80 marks

PART A — (2 × 10 = 20 marks)

**Answer BOTH the questions not exceeding
500 words each.**

1. (a) Detail notes on general objectives and specific objective of teaching biological science based on blooms taxonomy.

Or

- (b) Write elaborate notes on interdisciplinary approach and correlation of science subjects.

2. (a) Write elaborate account on curriculum construction and development of biological science syllabi.

Or

- (b) Write detail notes on different methods of teaching skills in biological science.

PART B — ($8 \times 5 = 40$ marks)

Answer any EIGHT questions not exceeding 150 words each.

3. Explain the historical background of science.
4. Write short notes on learning objectives.
5. Explain the short account on principles of curriculum development.
6. Explain the skill of stimulus variation.
7. Discuss the micro teaching technique acquiring for teaching skills.
8. Write notes on values of science library.
9. Briefly explain the educational values in science related activities.
10. Explain the types of instructions in individual learning strategies.
11. Write about essential features of lesson planning.
12. Write lesson plan point of view content for pedagogical analysis in science books for standard VI and IX.
13. Explain the analytical approach to understand the teaching and learning process.
14. Explain the lecture method of teaching.

PART C — ($10 \times 2 = 20$ marks)

Answer ALL the questions not exceeding 50 words each.

15. Aesthetic value of science.
16. Explain lesson plan.
17. Explain the role of NCERT.
18. Define the teaching skill in Biological science.
19. Write the importance of science museum.
20. What is science club?
21. Explain the role of multimedia teaching in biological science.
22. Define Remedial teaching.
23. Define the steps in unit planning.
24. Explain the concept of pedagogical analysis.

20. List some of the scientific hobbies.
 21. What are the criteria of choosing a teaching method?
 22. Mention the psychological principle underlying the programmed instruction.
 23. State the criteria of a good lesson plan.
 24. What do you mean by pedagogical analysis?
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B.Ed. DEGREE EXAMINATION, MAY 2018.

First Year

Education

PEDAGOGY OF BIOLOGICAL SCIENCE – PART 1

(From 2015-16 onwards)

Time : Three hours

Maximum : 80 marks

PART A — (2 × 10 = 20 marks)

Answer ALL questions.

1. (a) Justify the reasons for the inclusion of biology in school curriculum highlighting the multifarious values inculcated through teaching of biology.

Or

- (b) "Co-curricular activities add to the appeal of the school and realise the creative talents and social aptitude of students". Comment on the statement supplementing the organisation of science related activities.

2. (a) What is scientific method? Illustrate with a suitable example, the various steps involved in the scientific method.

Or

- (b) Develop a lesson plan choosing a topic from biology content at secondary school level, indicating the various steps involved in it.

PART B — ($8 \times 5 = 40$ marks)

Answer any EIGHT questions.

3. Explain science as a process of enquiry and a process of constructing knowledge.
4. Describe the general and specific objectives of teaching biological based on Bloom's Taxonomy.
5. Enumerate the principles of curriculum construction.
6. Elucidate the significance of skill of demonstrative in teaching of biology.
7. How will you organise a museum for teaching biology at school level?
8. Discuss the qualities of a good biology text book.
9. Describe the constitution and activities of a science club.

10. What is team teaching? How could it be organised in schools?
11. Discuss the advantages and disadvantages of computer assisted instruction in biology.
12. Discuss the role of multimedia in teaching biological science.
13. Explain the steps involved in developing a unit plan.
14. Analyse the biology content of VIII STD science book.

PART C — ($10 \times 2 = 20$ marks)

Answer ALL questions.

15. What is interdisciplinary approach in science teaching?
16. State the difference between instructional objectives and learning objectives.
17. Lay down the objectives of curriculum development.
18. What do you mean by link lesson practice?
19. How would you develop students' interest in using science library?