6020212

B.Ed. DEGREE EXAMINATION, DECEMBER 2017.

Second Year — Non-Semester

Education

PEDAGOGY OF BIOLOGICAL SCIENCE – PART 2

(From 2015–16 onwards)

Time : Three hours Maximum : 80 marks

PART A — (2 × 10 = 20 marks)

Answer ALL the questions.

1. (a) Explain the some examples of projected and non-projected aids and its uses in the teaching of biology.

Or

(b) Write notes on the following :

(i) Blended learning

(ii) e Books

(iii) Web

(iv) Wikis.

2. (a) Describe the continuous and comprehensive evaluation.

Or

(b) Describe the Edger Dales cone of experience.

PART B — (8 × 5 = 40 marks)

Answer any EIGHT questions.

3. Give a historical overview of Biology.

4. How would you plan and organise a field visit?

5. Describe how will you organise a conference in your college.

6. Bring the good criteria to select a good project in the teaching of biology.

7. Describe the competencies of a science teacher.

8. Elucidate the status of research in science education in India.

9. Teacher as a community of learner – Justify.

10. Describe the need and techniques of reflective practices.

11. Discuss the way in which a science teacher can help in inculcating scientific attitude in his pupil.

12. List out various publications in science education journals.

13. Explain the basic concepts of ABC method lesson.

14. Describe in detail the grading system.

PART C — (10 × 2 = 20 marks)

Answer ALL the questions.

15. List any five important materials to be placed in a first aid box.

16. What is Moodle?

17. What is Flash cards?

18. Define median and mode.

19. What are the advantages of using ICT in teaching learning process?

20. List out any five advantages of open ended questions.

21. Write down the kinds of models.

22. What are the advantages of biology record?

23. Write down the uses of internet.

24. Give the meaning of e-learning.

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B.Ed. DEGREE EXAMINATION
MAY 2018.

Second Year

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PEDAGOGY OF BIOLOGICAL SCIENCE – Part 2

(From 2015-2016 onwards)

Time : Three hours Maximum : 80 marks

PART A — (2 × 10 = 20 marks)

Answer ALL the questions.

1. (a) Summarise the uses of Machine Operated AIDS and Non-Machine operated AIDS in the teaching of Biological Science.

Or

(b) Critically analyse the common accidents and their remedies in biological science laboratory.

2. (a) Explain the significance of modified Edger Dales Cone of experience.

Or

(b) Critically examine the continuous and comprehensive Evaluation.

PART B — (8 × 5 = 40 marks)

Answer any EIGHT questions.

3. How would you plan and organise a field visit to botanical garden.

4. Elucidate the status of research in science education in India.

5. Describe the uses of educational Blogs in learning.

6. Explain the importance of educational Television.

7. Describe the significance of Collaborative learning.

8. Discuss the various steps and importance of Action research in biological science.

9. Distinguish between Expository approach and Activity based learning approach.

10. Enumerate the significance of concept Attainment model.

11. "Teacher as a researcher"– Justify.

12. Describe the advantages and disadvantages of grading system.

13. Discuss the way in which a science teacher can help in inculcating scientific attitude in his students.

14. Discuss the following:
    (a) Seminar
    (b) Conference.

PART C — (10 × 2 = 20 marks)

Answer ALL the questions.

15. Compare and contrast the science park and zoo.

16. What are the different types of display board?

17. List any five important materials to be placed in a first aid box.

18. Recall the salient features of Inquiry approach.

19. What is Blended learning?

20. How would a teacher can improve his professional skills.

21. Mention the special qualities of a science teacher.

22. What are the registers maintain in biological science laboratory.

23. Name some science Educational journals.

24. Define median and mode.

18. Name the laboratory registers.

19. How will you purchase the materials required for a biology laboratory?

20. What is the need for professional development programmes for biology teachers?

21. Name any four qualitative research.

22. Point out the advantages of e–books.

23. How do you differentiate grading from marking?

24. What is coefficient of correlation?

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M. DEGREE EXAMINATION, DECEMBER 2018.

Second Year – Non–Semester

Education

PEDAGOGY OF BIOLOGICAL SCIENCE – PART 2

(From 2015 – 16 Onwards)

Time : Three hours Maximum : 80 marks

PART A — (2 × 10 = 20 marks)

Answer ALL the questions.

1. (a) What is concept attainment? Describe the concept attainment model.

Or

(b) Describe the important points to be borne in mind while organising and maintaining science laboratory.

2. (a) Discuss the advantages and limitations of using ICT in teaching and learning processes.

Or

(b) What is diversity? How do you address the problem of diversity in your class room?

PART B — (8 × 5 = 40 marks)

Answer any EIGHT questions.

3. Describe the 5E learning model.

4. How do you organise a field trip to a science park?

5. Point out the rules to be followed by the students in the biology laboratory.

6. Explain the preparation of any one model for teaching biological science.

7. Describe any four accidents that might happen in biology laboratory and the first aid you would give for them.

8. Discuss the characteristics of educational research.

9. Discuss the essential qualities of a science teacher.

10. How do you encourage your students to ask questions in the class room?

11. What are the characteristics of continuous and comprehensive evaluation?

12. What is action research? Explain its advantages?

13. Describe Dale's cone of experience.

14. What is mean? Find out the mean for the following data:

Class Interval	Frequency
45–49	2
40–44	3
35–39	2
30–34	6
25–29	8
20–24	8
15–19	7
10–14	5
5–9	9

PART C — (10 × 2 = 20 marks)

Answer ALL the questions.

15. What are the advantages of overhead projector?

16. How do you utilise community resources in teaching biological science?

17. What are the benefits of enquiry based learning?