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SEAT No. \_\_\_\_\_

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Sardar Patel University, Vallabh Vidyanagar  
Academic Year 2017-18  
F.Y. B.Ed. (Advanced) Semester- II  
External Examination  
UE02EB2A13–Methodology of Teaching Science

Date: 04/04/18

Marks: 70

Day: Wednesday

Timing: 10:00 to 1:00pm

- All the Six questions are compulsory.
- The figures in the brackets to the extreme right indicate marks.

**Q.1 (A) Answer the following questions in brief. (Any Five out of Six) (15)**

1. Discuss the process sequence of Measurement.
2. Write major features of Inquiry Method.
3. State objectives of teaching science.
4. What are the advantages of Unit Planning?
5. Explain the principles of Curriculum Framing.
6. Elaborate role of Media in teaching science.

**Q.2 Select a topic of 8<sup>th</sup> grade and do Unit planning for it. (10)**

OR

**Q.2 Write short notes on the following topics.**

1. Aquarium: Preparation and Importance in teaching
2. Teaching Aid: Concept and Significance

**Q.3 Answer Any Two out of three in approximately 160 words each. (10)**

1. Discuss components of Lesson Planning.
2. How Botanical Garden and Herbarium are different? Write major features of Botanical Garden.
3. How M-App. Are useful in teaching science? Support your answer with examples.

**Q.4 Answer the following questions in brief. (Any Five) (15)**

1. Explain the steps of Problem Solving method.
2. Write characteristics of a Worksheet.
3. Explain any three types of Hypothesis with example.
4. Which according to you is useful? Self-observation or Peer Observation? Justify.
5. What are different types of Objective questions?
6. Differentiate between formative and summative evaluation.

**Q. 5 Answer the Following Questions in Brief. (10)**

1. Write two advantages of Virtual teaching of science.
2. Write two limitations of Group work.
3. Give two characteristics of Descriptive questions.
4. What are the three dimensions in three dimensional table of Blue Print?
5. Give meaning of Drill and Practice.
6. Write two topics which can be taught by Aquarium.
7. Frame one Null hypothesis.
8. Write two project titles.
9. What is the difference between open pair and Close pair work?
10. Write two advantages of Science fair.

**Q. 6 Answer Any Two out of three in approximately 160 words each. (10)**

1. Write an essay on 'Values Based Science Teaching'.
2. Guide students of 12<sup>th</sup> grade about scope and branches of Science.
3. Write a report on your visit at a Science Museum.