

(09) Seat No.: \_\_\_\_\_

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Sardar Patel University

Academic Year 2016-17

First Year B.Ed. (Advanced)

Semester – I

UE01EB2A13

CPS – II Understanding Science

Date: 22/10/16

Day: Saturday

Marks: 70  
Timing: 10:00 to 1:00pm

**Instructions**

- All six Questions are compulsory
- The figures in the bracket extreme right indicate marks.

**Q. - 1 Answer the following questions in brief. (Any Five) 15**

1. "Language in the science classroom creates scientific attitude in students". Illustrate on the same.
2. Write advantages of using teaching aids in the classroom.
3. How should be the nature of questioning technique?
4. What are the advantages and disadvantages of Lecture Method?
5. Differentiate between General and Specific Objectives in teaching science.
6. What are the merits of Inductive Approach?

**Q. - 2 10**

Define Problem-Solving Method. State one problem and elaborate it through the steps of Problem Solving Method.

**OR**

**Write Short Notes on**

- Lecture cum Demonstration
- Steps of Problem Solving Method

**Q. - 3 Answer the following questions in approximately 180 words. (Any Two) 10**

1. State types of Classroom Interaction. Why teacher need to use variety in classroom Interaction?
2. Learning of science begins with observation. Justify the statement with at least two activities for class VIII.
3. Enumerate the principles of Participatory Approach and explain in brief.

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

1. Microorganisms act as Friend and Foe. Comment
2. Explain the Structure of Atom with diagram.
3. Differentiate between plant cell and animal cell.
4. What is Friction? How is it helpful?
5. Define Magnetism. How Electromagnet is formed?
6. Explain Newton's first law of Motion with its applications.

**Q. – 5 Answer the following questions in one or two sentences.**

**10**

1. State Newton's Third of Motion.
2. Give two importance of Biodiversity in Environment.
3. Define Refraction.
4. What is the major difference between Sound and Noise?
5. Write two applications of motion in daily life.
6. Write two advantages of Biotechnology.
7. Write two examples of Alkenes group.
8. Which is the molecular formula to indicate aldehyde group?
9. State any two type of motion.
10. State three names of metalloids.

**Q. – 6 Answer the following questions in approximately 180 words. (Any Two)**

**10**

1. State the major difference between Meiosis and Mitosis. Explain phases of Meiosis in brief.
2. Write an article on 'Biodiversity and its Conservation' for the magazine Down to Earth.
3. What are types of Chemical Reaction? Explain any three with one example.

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