

Time:2 Hours

Marks:60

N.B.

1. Answer **any six** questions, out of which **Q:9** is compulsory.
2. Marks are indicated against each question.
3. Students answering in the regional language should refer in case of doubt to the main text of the paper in English.

- 1 Explain the meaning and characteristics of academic disciplines. 10
- 2 "Thorough knowledge of disciplines is vital to a teacher." Justify the statement with respect to the relationship between academic disciplines and Science subject. 10
- 3 "Values of teaching Science are essential for Indian socio-cultural context." Comment with reference to the values of teaching Science. 10
- 4 Elaborate the objectives of teaching Science at higher secondary level (NCF 2005). 10
- 5 "Maxims of teaching makes the Science teaching-learning process more meaningful and interesting." Illustrate with reference to any two maxims of teaching. 10
- 6 Explain the stages of developing concept map in teaching of Science with suitable examples. 10
- 7 Describe the organization and significance of a Science club. 10
- 8 Explain the planning and maintenance of the Science laboratory. 10
- 9 Attempt briefly **any two** of the following 10
  - a) Differences between the concentric and topical approach of curriculum organization
  - b) Merits of Problem solving method
  - c) Any five uses of virtual laboratories in Science teaching
  - d) Need of remedial teaching in Science

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