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Reg. No. :

Name : .....

# First Semester B.Ed. Degree Examination, May 2016 EDU 04.9 : THEORETICAL BASE OF NATURAL SCIENCE EDUCATION – I (2013 Admn.)

Time : 2 Hours

Max. Marks: 50

d) Theory)

What is scientific method ? What

P.T.O.

Answer any four questions. (Answer in six to

#### PART-A

Answer all questions.

Choose the correct answer. Each question carries one mark.

- 1. Theory of Multiple Intelligence was proposed by
  - (a) Gagne b) Howard Gardner
  - c) David P. Ausubel d) Jean Piaget)
- 2. Constructivist learning is advocated by
  - (a) Jean Piaget b) Leu Ygosky
  - c) B. F. Skinner

- d) Kohler)
- 3. Which among the following is a problem oriented strategy of teaching ?
  - (a) Concept mapping b) Brain storming
  - c) Biographical reporting d) Story telling)
- 4. A general statement which establishes the relationship between atleast two concepts is called
  - (a) Generalisation b) Principle c) Fact
- 5. ZPD means
  - (a) Zone of Potential Development
  - b) Zone of Proximal Development
  - c) Zone of Personal Development
  - d) Zone of Principle Development)

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<ul> <li>6. Inquiry training model is designed by</li> <li>(a) Hilda Taba</li> <li>c) Francis Bacon</li> </ul>	b) Richard Suchman d) J. B. Watson)	Reg. No. :
<ul><li>7. Cognitive objectives are related to</li><li>(a) Mental abilities</li><li>c) Psycho-motor abilities</li></ul>	<ul><li>b) Physical abilities</li><li>d) All the above abilities</li></ul>	
<ul><li>8. Which of the following is not an object</li><li>(a) Analysis</li><li>b) Receiving</li></ul>	ctive of cognitive domains a c) Synthesis d)	Evaluation)
<ul><li>9. Learning by doing is the principle be</li><li>(a) Lecture Method</li><li>c) Biographical Method</li></ul>	hind b) Historic Method d) Discussion Method)	Answer all question Choose the correct
10. Discovery learning is proposed by (a) Jerome S Bruner	b) Howard Gardner d) Jean Piaget)	(10×1=10 Marks)

c) David P. Ausubel

### PART-B

Answer all questions. (Answer in two or three sentences)

- 11. Mention the major contributions of M. S. Swaminathan.
- 12. What are the instructional and nurturant effects of Inquiry Training Model ?
- 13. Write the objectives under Affective Domain.
- 14. Write any four advantages of Heuristic method.
- 15. Bring out any two differences between behaviourist and constructivist approach (5×2=10 Marks) of teaching.

## PART.-C

Answer any four questions. (Answer in six to eight sentences)

- 16. What is scientific method ? What are the steps involved in scientific method ?
- 17. Explain Mc Cormack and Yagar's taxonomy of science education.

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18. Define scientific attitude. Explain how you can develop scientific attitude in pupils ?

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- 19. Highlight the salient features of BSCS.
- 20. Compare NCF and KCF with respect to their objectives.
- 21. What are the educational implications of Bruner's theory ?

(4×5=20 Marks)

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#### PART-D

Answer any one not exceed two pages.

- 22. What is meant by Project Method of Teaching ? What are its advantages and disadvantages ? Illustrate the steps with suitable examples.
- 23. Describe briefly the important national goals of teaching natural science. Explain the need for creating an awareness of these goals among learners. (1×10=10 Marks)