UG Even Semester (CBCS) Exam., May—2017

EDUCATION

(4th Semester)

Course No. : BSED–403 TOP–I

(Teaching of Physical Science—I)

Full Marks : 70
Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

1. *(a)* Outline the steps through which science is developed. 8

(b) Differentiate between product and process of science. 6

OR

2. *(a)* Describe the major aims of teaching physical science at school level. 7

(b) List the major objectives of teaching physical science at secondary level as per NCF, 2005. 7

3. *(a)* Elaborate the major aspects that you would keep in your mind while deciding a suitable method of teaching. 7

(b) Write a short note on the importance of blackboard as a teaching aid. How can you make your black board writing effective? 3+4=7

OR

4. *(a)* Write a note on programmed instruction. 7

(b) Write a note on models of teaching physical science. 7

5. *(a)* Elaborate objective-based instruction. 6

(b) Explain SE model lesson plan for teaching physical science. 8

OR

6. *(a)* Explain the major instructional objectives of physical science. Write any two specifications (behavioural objectives) of *(i)* skill and *(ii)* interest. 7+2=9

(b) Briefly explain the importance of unit plan for a physical science teacher. 5

7. *(a)* How will you teach the concept of molecular mass to your students? 7

(b) What is an endothermic reaction? Explain with example. 5+2=7

OR

8. *(a)* State and explain the law of conservation of momentum. 8

(b) Outline diagrammatically the blackboard work that you would develop while teaching Archimedes principle to your students. 6

9. *(a)* What is homologous series? 4

(b) Develop a lesson plan to teach homologous series to your students. 10

OR

10. *(a)* Define the terms pole (*P*), centre of curvature (*C*), radius of curvature (*R*) and principle axis of a concave spherical mirror. 4

(b) Develop a lesson plan to teach the terms *P*, *C*, *R* and principle axis associated with a concave spherical mirror. 10

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