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SCIENCE

Course – 1.2.7 (A)

Full Marks : 50

Time : Two Hours

The figures in the margin indicate full marks

1. Answer any five questions (In not more than 30 words): **2 x 5 = 10**

- (a) Write two values of teaching science at the secondary level.
- (b) What is meant by scientific aptitude?
- (c) What do you understand by ‘Teacher Centered Method’ and ‘Pupil Centered Method’?
- (d) Write the general criteria for the selection of appropriate teaching method in Science.
- (e) What are the importances of a science laboratory?
- (f) Mention the types of learning resources in science teaching.
- (g) What is meant by improvisation of science teaching aids?
- (h) Indicate two essential qualities of science teachers.
- (i) How can the professional growth of Science Teacher be ensured?

2. Answer any six questions (In not more than 150 words): **5 x 6 = 30**

- (a) What do you understand by scientific attitude? How can you develop this attitude among your students through teaching of Science? 2 + 4

- (c) Briefly illustrate the techniques of Computer Assisted Instruction of Science teaching at the Secondary level. 6
- (d) Illustrate the essential steps for planning and organization of a Science Laboratory? 6
- (e) Briefly discuss the inter relationship of various branches of Science. 6
- (f) What should be the qualifications and qualities of Science Teachers? 6
- (g) Illustrate the principles of Science curriculum construction at the secondary level. 6
- (h) Make a brief critical analysis of present Physical Science curriculum of WBBSE, CBSE and ICSE.
- (i) Write the general criteria for the selection of appropriate teaching method in Physical Science.

OR

“It is impossible to suggest a particular method or approach of teaching Physical Science as superior to all other methods / approaches” --- Explain

3. Answer any *one* question (Within 300 words):

10 x 1 = 10

(a). Mention the aims and objectives of teaching Science in the secondary schools. How far are these objectives being fulfilled in the day-to-day practices of teaching-learning in the schools of West Bengal? Do you think that the objectives of science teaching should be same in rural and urban areas? – Give your views in this connection. 5 + 3 + 2

(b). What is meant by Heuristic Method in teaching Science? Explain with suitable example(s) the different steps to be followed in teaching Science at the Secondary level applying this method. How far is the method applicable in the context of present Science curriculum of West Bengal? 2 + 6 + 2

(c). What do you mean by Problem Solving Method in teaching Science? Explain with suitable example(s) the different steps to be followed in teaching Science at the Secondary level applying this method. Write a comparison of the Problem Solving Method with Heuristic Method? 2 + 6 + 2

(d) Mention the importance of Project Method in teaching Science. Explain with suitable example(s) the different steps to be followed in teaching Science applying this method. 3 + 7

(e). What are the utilities of teaching aids in Science teaching at the secondary level? What do you mean by improvised teaching apparatus? Discuss the role of improvised teaching apparatus for the improvement of Science teaching in the Secondary schools with suitable examples. 2 + 2 + 6