2021

PEDAGOGY OF SCIENCE TEACHING— MATHEMATICS

Course : 1.3.7B

Full Marks : 35

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

1. Answer *any one* question:

   (a) Write a comparison between West Bengal Board of Secondary Education and CBSE in the perspective of the principles of curriculum construction. Critically discuss about the existing text-book of mathematics for class IX of West Bengal Board of Secondary Education in the perspective of the principles of text-book preparation.   10+10

   (b) Prepare a continuous and comprehensive evaluation plan for class-VIII. What do you mean by open text-book evaluation? What are the demerits of the existing system of assessment? According to you how should it be more effective?   10+3+3+4

   (c) Make a pedagogical analysis of the content from secondary level (Mixture, or Height and Distance, or Law of Indices) on the following items:

   (i) Breaking of unit into subunit with number of periods.

   (ii) Write appropriate instructional objectives in behavioural terms.

   (iii) Teaching learning strategies.

   (iv) Blue print for Criterion Reference Test items.   3+6+5+6

2. Answer *any one* question:

   (a) How pedagogical analysis is useful for a teacher of mathematics in his/her current teaching learning situation? Discuss the process of construction of an Achievement Test.   7+8

   (b) What are the major difficulties in online mathematics teaching during COVID-19 pandemic and as a mathematics teacher how can you overcome these difficulties? What is the ideal teaching and learning classroom environment?   8+7

   (c) Write short notes on *any two* from the following:

   (i) Practical activities in teaching mathematics

   (ii) Aesthetic sense in Mathematics

   (iii) Mathematics Club.   7.5+7.5

_____