NEW

2015

B. Ed.

2nd SEMESTER EXAMINATION

PEDAGOGY OF MATHEMATICS

PAPER—C-206

Full Marks : 50

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

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

Illustrate the answers wherever necessary.

1. Answer any *five* of the following questions :   5×2

   (a) Illustrate with examples the use of mathematics in physics.

   (b) Give an example where an algebraic problem is solved by geometry.

(c) How would you trace slow learners in your mathematics classroom ?

(d) Give any two examples of beauty in mathematics.

(e) Explain the need of creating positive image of mathematics.

(f) How can you correlate mathematics with household activities ?

(g) Mention any two strategies to reduce fear in mathematics among students.

(h) Prepare two multiple choice test items with four options each in any topic of arithmetic of class X stage.

2. Answer any *six* of the following questions :　　6×5

(a) Explain with illustrations how mathematics can be used in Bio-Science.

(b) What are the characteristics of advanced learners in mathematics ? Suggest some enrichment programmes for them.　　3+2

(c) Discuss the features of a mathematics club.

(d) Explain the shortcomings or limitations of objective-type tests. How would you overcome these limitations ?

(e) Describe the main features of a mathematics laboratory.

(f) Argue for & against the inclusion of algebra in Class X stage.

(g) Explain with suitable examples how mathematics can be used in leisure time.

(h) Illustrate with proper examples, how different topics of mathematics are correlated.

(i) School mathematics helps learners in everyday life — justify the statement with appropriate examples.

3. Answer any *one* of the following questions :   1×10

(a) Critically analyse any *one* of the following topics with respect to its significance within the school curriculum

and its articulation of the concept of the topic :

(i) Relate the topic to everyday life circles.

(ii) Set theory. 3+5+2

(b) Critique the inclusion of solid geometry (prism, pyramid, sphere, right circular cylinder and right circular cone) in the syllabus of Class X under WBBSE. • 10

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