

5F7**G5****D.El.Ed. Examination****NOVEMBER, 2021****First Year (2016 Revised Syllabus)****MATHEMATICS PEDAGOGY****(English Medium)****Time : 11.00 to 1.00 Hrs.****Date : 24/11/2021****(4 Pages)****Max. Marks : 40**

1. (A) Answer the following questions in single sentence

each :

4

- (1) How many stages of cognitive development are told by Jean Piaget ?
- (2) What is meant by number pattern ?
- (3) Who is the father of experimental method ?
- (4) What is meant by creativity ?

(B) Correct and rewrite the following sentences :

4

- (1) 49 cm will be perimeter of a square having side 7 cm.
- (2) Mathematics is nature-made science.
- (3) Fraction concept starts from std. I.
- (4) Square has two equal axes.

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2. Answer the following questions in 60 to 80 words each : 8

- (1) What is meant by structure ? Write the types of structure. 2
- (2) Write *four* advantages of experimental method. 2
- (3) As a teacher, how will you use Mathematics text-book. 2
- (4) Prepare *two* 'objective type' questions on unit 'Circle'. 2

3. Answer the following questions in 120 to 160 words each : 12

- (1) Explain the correlations of mathematics subject with school subjects. (any *three*) 3
- (2) Explain the six differences between written exam and oral exam. 3
- (3) 'Mathematics subject is used in Banking Transactions.' Justify the sentence with any *three* examples. 3

Or

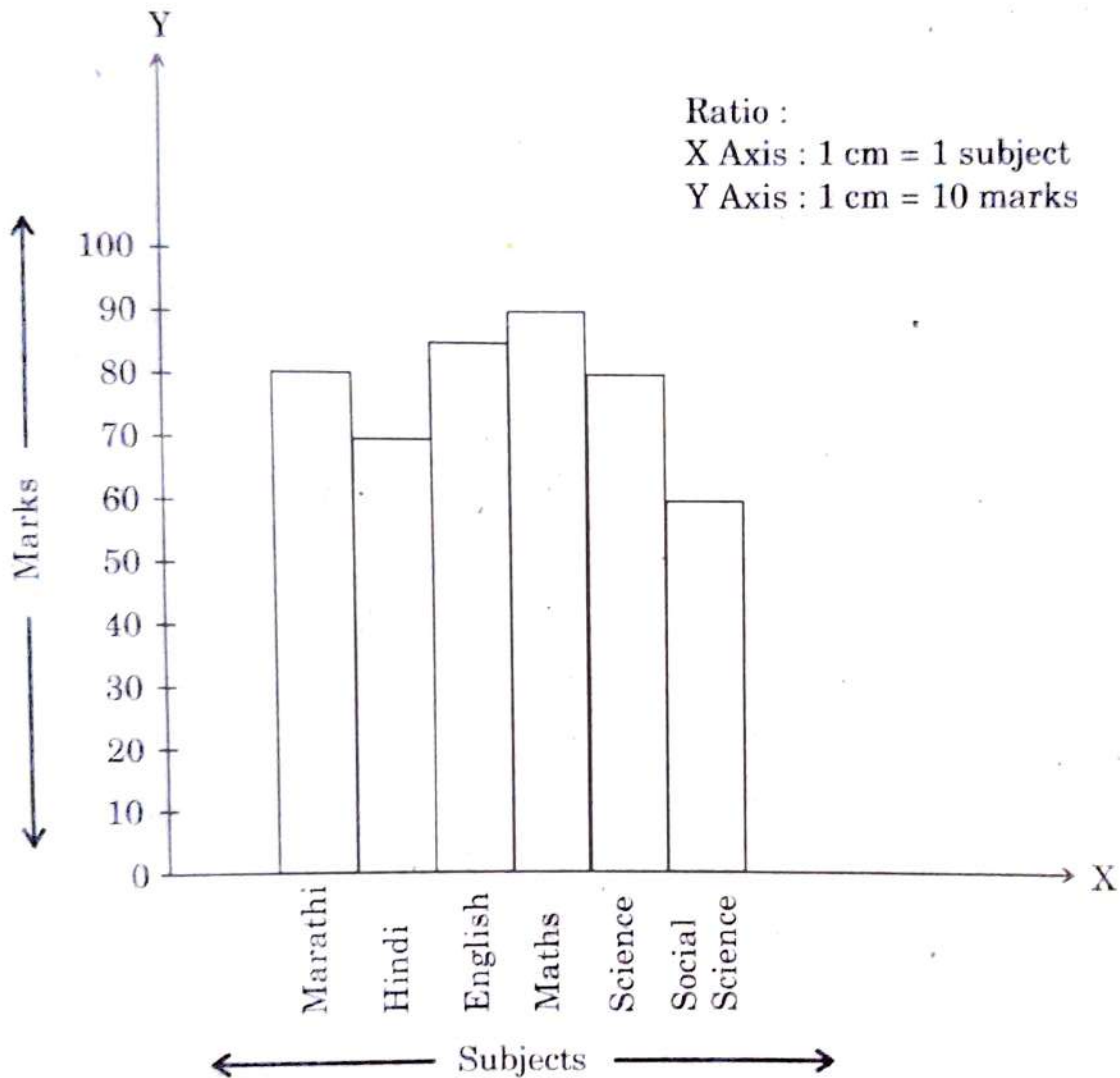
'Mathematics subject is used in post office transactions.' Justify the sentence with any *three* examples.

- (4) In the following examples use letter for unknown number and write it : 3

- (1) Four times of a number
- (2) Nine subtracted from a number
- (3) Total number by adding 6 in a number.

Or

Answer the following questions with the help of given bar graph :



- (1) In which subject maximum marks are there ?
- (2) Which subject has least marks ?
- (3) Which subjects have more than 70 marks ?

4. Answer the following questions in 200 to 250 words each : 12

- (1) Prepare *two* mathematical puzzles based on various mathematical operations and write its logical answers. 4,
- (2) For the cultural programme of school, 4 garlands for Rs. 20 each, 10 kg Rangoli with rate Rs. 10 per kg, 2 kg chocolate with rate Rs. 20 per kg are bought. Tell the total expenditure of the programme. 4
- (3) Write any *two* mathematical games conducted during teaching of mathematics. 4

Or

To increase the interest in mathematics, which *eight* activities will you implement under Mathematics Club ?