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D.El.Ed. Examination
MAY, 2022

First Year (2016 Revised Syllabus)
MATHEMATICS PEDAGOGY
(English Medium)

Time : 11.00 to 1.00 Hrs.

Date : 30/5/2022

(3 Pages)

Max. Marks : 40

1. (A) Answer the following questions in one word each : 4

- (1) What is a structure ?
- (2) Write the formula of Area of a square.
- (3) Who is the pioneer of inductive method ?
- (4) What is meant by creativity ?

(B) State whether the following statements are true or false :

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- (1) Procedural knowledge is not given unless conceptual knowledge is given.
- (2) Evaluation is a continuous and never ending process.
- (3) If one angle of a right angled triangle has measure of 60° , then the measure of other angle is 50° .
- (4) The answer of objective question changes according to individuals.

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P.T.O.

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

- (1) Write any *four* formulae (maxims) of Mathematics teaching. 2
- (2) Prepare structure of topic "Knowledge of Numbers" for Standard 2. 2
- (3) Write *four* uses of Mathematics subject in day-to-day life. 2
- (4) Draw a circle with centre 'M' and radius 3 cm with the help of a compass and draw diameter NP. 2

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

- (1) Show the change of twenty rupee note with the help of smaller notes and coins. (Show *six* arrangements). 3

Or

Give *three* examples each of two-dimensional and three-dimensional figures and write information about each in short.

- (2) How will you teach the concept of 12-hour time measurement and 24-hour time measurement ? 3
- (3) Prepare content analysis of the unit "symmetry" of standard 3 textbook. 3
- (4) Prepare objectivewise, subunitwise and type of questionwise charts of marks distribution to prepare a unit test of 25 marks. 3

Or

Prepare a blueprint outline for unit test of 25 marks.

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

(1) How will you use Bruner's theory of learning in Mathematics teaching ? Explain with an example. 4

(2) How will you keep maintenance of Mathematics laboratory as a teacher ? Explain giving examples. 4

Or

Explain any *two* mathematical games based on any *two* mathematical concepts.

(3) Explain the steps of critical thinking in Mathematics. 4