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GG5

D.El.Ed. Examination
JUNE, 2019

Second Year (2016 Revised Syllabus)
SCIENCE & MATHEMATICS PEDAGOGY
(English Medium)

Time : 3.00 to 5.00 Hrs.

Date : 14/6/2019

(4 Pages)

Max. Marks : 40

1. (A) Fill in the blanks with suitable word and rewrite the statement : 4

(1) The sum total of measures of opposite angles in a cyclic quadrilateral is 180° 1

(2) Systematic arrangement of the topics is called as *Structure* 1

(3) National Science Day is celebrated on *28th Feb.* 1

(4) The place of the topic "Force and types of Forces" the structure is included in the main branch of General Science.

GG5

1 of 4

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(B) Match the following :

4

Group 'A'

Group 'B'

- | | | | |
|----------------------------|-----|---|---|
| (1) Demonstration method | (a) | An act accepted to achieve specific aim | 1 |
| (2) Heuristic method | (b) | Teacher shows experiment in the class | 1 |
| (3) Problem solving method | (c) | Expresses opinion | 1 |
| (4) Project method | (d) | A method of achieving development of thinking power | 3 |
| | (e) | Student's role as a researcher | 2 |

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

- (1) "Subtraction of four digit numbers." Prepare *two* word problems on the above concept. 2

Or

The scores achieved by six students in Mathematics subjects in semester examination are given below. Find out the average score of these students :

85, 76, 66, 94, 84, 69.

- (2) Which *four* units will you choose from Standard 7th Science subject to be taught by observation method ? 2

Or

✓ How will you arrange a science field trip for your students ?

✓ (3) Which activities will you carry out to create scientific awareness in your students ? 2

✓ (4) Prepare only the outline of Blueprint. 2

Or

Prepare a *four* point problem list of Mathematics subject.

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

✓ (1) Suggest *six* remedies for the improvement in written examination. 3

✓ (2) Suggest any *six* activities to create interest in Mathematics subject. 3

✓ (3) Write the characteristics of a Science laboratory. 3

Or

Write the properties of any *three* basic concepts of Geometry.

(4) Explain with examples any *three* characteristic features of Science subject. *Logical thinking*
Acquire
Complex activity 3

✓ Explain the correlation between branches of Science with *two* examples of each.

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

(1) Prepare a lesson plan on any unit of any standard of Science subject by using constructivism approach. 4

Or

Prepare unit plan for any unit of Standard 8th Mathematics.

(2) ✓ Write *four* characteristics of living things with examples. 4

(3) Explain the importance of learning Science and Mathematics for the welfare of mankind. Give examples. 4

Or

✓ Explain any *four* competencies of a Mathematics teacher.