

**CERTIFICATE PROGRAMME FOR
PROFESSIONAL DEVELOPMENT OF
PRIMARY TEACHERS (CPPDPT)**

Term-End Examination

December, 2014

03783

BES-055 : PEDAGOGY OF MATHEMATICS

Time : 2 hours

Maximum Weightage : 70%

Note : *All three questions are compulsory. All questions carry equal weightage.*

1. Answer the following question in about 600 words.
- (a) How will you teach Mathematics by integrating it with environmental studies (EVS) ? Give examples.

OR

- (b) Briefly explain the three types of graphical representations of Data.
2. Answer any **four** of the following in about 150 words each.
- (a) Differentiate between conceptual and procedural knowledge.
- (b) Discuss the importance of Mathematics Club.
- (c) What are the common mistakes of children in solving addition problems ?

- (d) How will you introduce the concept of 3D shapes ?
- (e) What group activity will you organise to make children familiar with the skill to estimate weight ?
- (f) Explain the concept of leap year.

3. Answer the following question in about 600 words.

“Division problems are most difficult for children.” Discuss the reasons for it. List the possible mistakes that children make while attempting division problems. Suggest an activity to overcome difficulties children face while doing ‘division’ problems.
