

**CERTIFICATE IN ELEMENTARY
TEACHER EDUCATION (CETE)**

Term-End Examination

June, 2013

MESE-013 : TEACHING OF MATHEMATICS

Time : 3 hours

Maximum Weightage : 70%

Note : *All questions are compulsory. All questions carry equal marks. Answer the question No. 1 and 2 in 600 words each.*

1. What is problem-solving approach to teaching mathematics ? Write in brief with suitable examples.

OR

Write in details the difference of analytic method and synthetic method of teaching of maths at elementary school level.

2. Explain how learner evaluation :
- (a) helps a teacher to teach better
 - (b) helps the students

OR

Write in brief the contribution of any two Indian mathematicians.

3. Answer *any four* of the following :

- (a) A school has 140 children enrolled. 90 children were present on a day of visit. What percentage of children were present on the day of visit ?
- (b) A salesman sells goods worth Rs. 3,600/- and charges commission at the rate of 5 percent. Find the amount of his commission ?
- (c) A car is sold for Rs. 150,000/-, less a discount of 10 percent. Find the price of the car.
- (d) A person sells his car through a broker for Rs 60,000/-. If the brokerage is 2 percent, find the net selling price of the seller and total brokerage given to the broker.
- (e) A person borrows Rs. 100,000 from a bank for the period of 5 years at 9 (nine) percent rate per annum. Find the total amount paid to the person to the bank.
- (f) A person invested Rs. 500/month for two years in a recurring deposit scheme at 10 percent annual interest rate. Find the total amount person will receive after 2 years.
- (g) The side of a rhombus is 17 cm. One of its diagonal is 16 cm. Find its area

4. Answer the following question in about **600** words :

Explain using practical examples how you introduced any one mathematical concept like, fraction, percentage, area, volume etc to your class.
