BASIC INTELLIGENCE AND

RMEMBRANCE TEST

202- MATHEMATICS

INTERNAL ASSESSMENT

EDUCATION IS MOST PRECIOUS WEALTH OF MANKIND

BASIC

AND

INTELLIGENCE

REMEMBRANCE

<u>(20 marks)</u>

- Derivation of trigonometric ratios for angles 0, 30, 45, 60 and 90 geometrically. (4 marks)
- Finding Formula For sum of first n terms of AP. (2 marks)
- > Finding Formula to find n^{th} term of AP. (1 mark)
- To compare theoretical and empirical probability for following cases: (5 marks)
 - I. When Two coins are tossed 100 times simultaneously:
 - a. Probability of getting heads on both coins
 - b. Probability of getting tails on both coins
 - c. Probability of getting heads on first coin and tails on second coin.
 - d. Probability of getting tails on first coin and heads on second coin.
 - II. When Three coins are tossed 50 times simultaneously:
 - a. Probability of getting heads on all coins
 - b. Probability of getting tails on all coins
- Derivation of section formula and section mid-point formula on a Cartesian plane. (3 marks)
- Derivation of Area of Triangle Formula On a Cartesian plane. (1 mark)
- Derivation of formulas given below: (4 marks)
 - I. Surface area of frustum of a cone
 - II. Volume of frustum of a cone