

AUGUST 2007

NATIONAL CERTIFICATE

ENGINEERING SCIENCE N4

TIME: 3 HOURS

MARKS: 100

INSTRUCTIONS AND INFORMATION

1. Answer ALL the questions.
 2. Marks indicated are percentages obtainable.
 3. Questions may be answered in any order, but subsections of questions must be kept together.
 4. ALL formulae used must be written out.
 5. Show ALL the intermediate steps.
 6. Questions must be answered in blue or black ink.
 7. ALL the sketches and diagrams must be done in pencil in the answer book.
 8. $g = 9,8 \text{ m/s}^2$
-

QUESTION 1

- 1.1 Two aeroplanes leave an airport simultaneously. Aeroplane V flies north-west at 130 km/h and aeroplane W flies S 40° W at 175 km/h. Calculate the velocity of aeroplane W relative to the velocity of aeroplane V in magnitude and direction. (5)
- 1.2 A body is projected at such an angle that the horizontal displacement (range) is five times the maximum height reached. The initial velocity is 200 m/s. Calculate the angle of projection. (5)
- 1.3 An aeroplane can fly at 310 km/h in still air. Calculate how long does it take, in hours, to reach an airport 750 km to the south-west if a wind is blowing at 110 km/h from the west. (5)

Engineering Science N4 Questions Answers

Thirumalaisamy P.
Velavancorresponding



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