

**NATIONAL BUSINESS AND TECHNICAL EXAMINATIONS BOARD
(GENERAL EDUCATION EXAMINATION)**

Attempt FIVE questions only

All questions carry equal marks.

MOTOR VEHICLE MECH

SECTION B (021-1)

(ESSAY)

1. (a) State the materials from which the following vehicle parts are manufactured:
 - (i) Clutch lining
 - (ii) Hoses for petrol
 - (iii) Brake pad
 - (iv) Distributor housing(b) State ONE reason for each of the materials chosen.
2. (a) List FIVE checks to be made before carrying out wheel alignment of a vehicle.
(b) State ONE possible causes which can prevent an engine from running after starting.
3. List THREE causes of each of the following valve problems:
 - (i) Sticking
 - (ii) Burning
 - (iii) Wear
 - (v) Breakage
4. (a) Sketch the universal joint and label TWO parts
(b) State the function of the universal joint.
5. (a) State ONE cause and effects of each of the following plug conditions:
 - (i) Worn plug
 - (ii) Oiled plug.
 - (iii) Carbon fouled(b) With the aid of a correctly labeled simple sketch, describe the centrifugal advance mechanism during the retard position.
6. (a) State THREE important pump test before refitting in a C.I. engine.
(b) State the precaution to be observed to protect the skin from fuel penetration.