

447/2 Inst. Sc.
POWER MECHANICS
Paper 2
(PRACTICAL)
Oct./Nov. 2012



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THE KENYA NATIONAL EXAMINATIONS COUNCIL
Kenya Certificate of Secondary Education
POWER MECHANICS
Paper 2
(PRACTICAL)

INSTRUCTIONS TO SCHOOLS

1. *The quantities are for 10 candidates doing the examination at the same time (or 20 candidates in two sessions).*
2. *The centres MUST ensure that ALL materials, tools and equipment are readily available before the arrival of the examiner.*
3. *Candidates are expected to use the same tools, equipment and materials they have used during training. New and unfamiliar tools, materials or equipment may have negative effects.*
4. *Centres are reminded that candidates will lose marks if they fail to complete the examination due to lack of specified materials, tools and equipment.*
5. *All the engine parts unless otherwise specified are from a single cylinder engine.*

This paper consists of 3 printed pages.

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MATERIAL REQUIRED PER CANDIDATE

1. Pencils HB and 2H.
2. Eraser.
3. Drawing surface.
4. Plain GI sheet gauge 26 100 x 40mm piece per candidate.
5. Tinsnips.
6. Steel rule.
7. Scriber.
8. Centre punch.
9. Drilling bit \varnothing 3mm.
10. Drilling machine/handdrill.
11. Files.
12. Protractor or 45° set-square.
13. Cold chisel.
14. Anvil.
15. Engineers square.
16. Water hose for radiator labelled M (-torn)
17. Dead shock absorber labelled N.
18. Clogged fuel filter labelled O.
19. Work exhaust manifold gasket labelled P.
20. Torn master cylinder boot labelled Q.
21. Single cylinder engine with sump removed.
22. Torque wrench (0 - 50 kN/m²).
23. Appropriate spanners.
24. Plastigauge (complete with interpreting scale).
25. Cleaning materials (rags/cotton waste).
26. Mechanical fuel pump (rotor type).
27. Appropriate screw drivers.
28. Feeler gauge.
29. Engine oil 5 litres.
30. Suitable container.
31. Detergent for washing hands.
32. A complete vehicle with - rear axle put on stand.
 - rear wheel removed.
 - drum loosened.
33. screw driver.
34. spring balance (0 - 50Kg)
35. rags.
36. 3 lamps 12v with lamp holders.
37. 1SPST switch (toggle).
38. 1 fuse complete with holders.

39. Live battery
40. Assorted wires
41. A vehicle
42. 2 jacks
43. A tape measure
44. Stands
45. White chalk
46. Tyre tube
47. Piece of tube for patches
48. Emery cloth
49. Pair of scissors
50. Soft hammer
51. Adhesive (conta or stick)
52. A complete multicylinder engine
53. Service manual
54. SP socket
55. Cleaning agent (suitable)
56. Set of needle files
57. Work bench with vice