



University Examination 2018/2019

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

FIRST YEAR SECOND SEMESTER EXAMINATION FOR

DIPLOMA IN BUILDING TECHNOLOGY (TVET)

CONSTRUCTION PLANTS & EQUIPMENT

DATE: 24/4/2019

TIME: 2.30-5.30 PM

INSTRUCTIONS

Attempt all the questions

1.
 - a) State 5 reasons for using constructions plant (5 marks)
 - b) Using sketches explain the difference between a scraper and a grader (10 marks)
 - c) Using a sketch describe a back actor and state where its used. (5 marks)
2.
 - a) Sketch the arrangement of wheels in pneumatics roller (5 marks)
 - b) Briefly explain the operation and features of the roller (10 marks)
 - c) Sketch a poker vibrator (5 marks)
3.
 - a) With a good sketch describe a straight mast forklift (5 marks)
 - b) List 5 types of transporting plants (5 marks)
 - c) State five factors to consider when selecting a type of crane required for contract (10 marks)
4.
 - a) Sketch a piling crane (10 marks)
 - b) Discuss two methods of boring (10 marks)
5.
 - a) Name three classifications of plants (3 marks)
 - b) Describe a bulldozer and state where it is used (5 marks)
 - c) Draw a gantry crane and state where it is used (6 marks)
 - d) Differentiate between a static crane and climbing tower (6 marks)