THE UNITED REPUBLIC OF TANZANIA NATIONAL EXAMINATIONS COUNCIL OF TANZANIA DIPLOMA IN TECHNICAL EDUCATION EXAMINATION

784

BRICKWORK AND MASONRY

Time: 3 Hours

Wednesday, 15th May 2019 a.m.

Instructions

- 1. This paper consists of six (6) questions.
- 2. Answer question number one (1) and any other four (4) questions.
- 3. Question 1 carries thirty two (32) marks and the rest carries seventeen (17) marks each.
- Non programmable calculators may be used.
- 5. Communication devices any unauthorized materials are not allowed in the examination room.
- 6. Write your Examination Number on every page of your answer booklet(s).





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- 1. (a) What is meant by septic tank?
 - (b) Draw a longitudinal section of a septic tank and show five important parts.
 - (c) With the aid of sketches, explain the following tools as used in the construction works:
 - (i) Wooden float
 - (ii) Laying trowel
 - (iii) Bat and closer gauge
- 2. (a) With the aid of sketches, differentiate between traditional strip foundation and deep strip-foundation.
 - (b) Mention five causes of accidents in the construction works.
 - (c) How can the accidents be prevented?
- 3. (a) Elaborate four requirements of scaffolds.
 - (b) Use sketches to show how independent and dependent scaffolds are erected.
- 4. (a) What is the function of stairs?
 - (b) Use sketch to show elevation of stair and label all parts.
 - (c) Draw the plan views of the following stairs.
 - (i) Straight flight
 - (ii) Dog leg
 - (iii)Quarter turn.
- 5. (a) What are the advantages of constructing flat roofs in buildings?
 - (b) State four requirements of a good solid floor surface finishes.
 - (c) Draw a sketch of a framed ledged and battern door.
- 6. (a) (i) Define the term 'workshop' as applied in the construction industry.
 - (ii) Mention two major types of workshops and state its four differences.
 - (b) With the aid of diagrams, explain the different types of pointing.
 - (c) (i) What is the meaning of concrete as applied in the building construction?
 - (ii) Mention four factors which influence the strength of concrete.

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