FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA INDUSTRIAL AND TECHNOLOGY EDUCATION DEPARTMENT SECOND SEMESTER EXAMINATION 2018 / 2019 SESSION

Material Technology ITE 323

MATRIC NO.

Attempt all questions. Time Allowed: Two Hours

OPTION_____LEVEL_

Section A (Objectives)
1. Which of the following non-metal is good conductor of electricity? a). Graphite, b). Phosphorus, c). Hydrogen, d). Bromine
2. Sapwood consists of ? a). Inn ermost annular rings around pith, b). Portion of timber between heartwood and cambium layer, c). Thin layers below bark, d). Thin fibre which extends from the pith outwards and holds the annular rings together.
3. Admixture are chemicals that are added to to enhance its properties.
4. The two types of tests that can be carried out on timber to obtain information regarding timber properties areand
5. Which of the following gradients exerts maximum influence on properties of steel? a). Iron, b). Carbon, c). Manganese, d). Sulphur
6. The production of concrete is basically done inoperations. a).10, b).6, c).4, d).7
7. The appearance Characteristics of timber includes and
8. The ability of metals to be drawn into thin wire is known as? a). Ductility, b). Malleability, c). Sonority, d). Conductivity
9. The trunk of tree left after cutting all the branches is known as? a). Log, b). Batten, c). Plank, d). Baulk
10. Concrete in a composite material consisting of,and
11. Nonmetals compine with oxygen to form oxides.
12. The process of spreading water on harden concrete to improve its strength is
13. The best conductors of electricity areand
14. The age of a tree can be known by examining? a). Cambium layer, b). Annular rings, c). Medullary rays, d). Heart wood
15 of timber refers to the ease or difficulty of nailing, carving and gluing.
16. The inclusion of in concrete makes it to become

Section B (Theory)

Each material should not exceed 1 ½ pages

Human beings cannot comfortably exist in his environment without these materials; Metals, Concrete and Timber. Justify this assertion in these sectors; Mechanical /manufacturing, Electrical/electronics, Construction/infrastructure, Automobile and others.