

FEDERAL UNIVERSITY OF TECHNOLOGY, OWERRI
DEPARTMENT OF MECHANICAL ENGINEERING
2018/2019 RAIN SEMESTER EXAMINATIONS
COURSE: ENG 206 WORKSHOP PRACTICE IV TIME, 60 Minutes.
Instructions: Answer All Questions. Circle/Underline the right option

NAMEREG.NO

DEPT SCHOOL

- 1 Which of the following is not a wood working machine (a) Mortise (b) Jig Saw (c) G-cramp (d) Wood Lathe
- 2 A porous and fibrous structural tissue found in the stems and roots of trees and other woody plant is known as (a) Ceramics (b) Wood (c) Adhesives (d) Resins (e) Wax
- 3 The part of wood working that involves joining together pieces of wood to produce more complex items is known as (a) Assembly (b) Gluing (c) Planning (d) Wood Joinery (e) Routing
- 4 Which of the following is not a hard wood (a) Iroko (b) Ebony (c) Cedar (d) Beech (e) Walnuts
- 5 Which of the following is an example of a softwood (a) Pine (b) Spruce (c) Cedar (d) Balsam (e) All of the above
- 6 Air seasoning of wood is carried out in a chamber under controlled temperature and humidity conditions with proper air circulation and ventilation system (a) True (b) False
- 7 Which of the following is not a holding tool (a) Gimlet (b) Bench hook (c) Bend vice (d) G – Cramp
- 8 Which of the following is not a Boring and drilling tool (a) Auger (b) Wheel brace (c) Brace and bits (d) Chisels
- 9 Which of the following is a woodwork tool (a) Pencil (b) Bench stop (c) Mallet (d) None of the above (e) All of the above
- 10 Hardwoods have straight fibres and fine textures (a) True (b) False
- 11 Which of the following is not a characteristics of softwood (a) Light in colour and weight (b) Easy to be worked (c) its fibre are quite close and compact (d) all of the above (e) None of the above
- 12 Hardwoods are produced by the cone bearing trees (a) True (b) False
- 13 Preservation of wood is done in order to protect the timber from internal decay and attack of insects. (a) True (b) False
- 14 Evergreen trees keep their leaves all year round while deciduous trees lose their leaves in winter (a) True (b) False
- 15 Softwoods are produced by broad leaved trees whose seeds are enclosed in fruit (a) True (b) False
- 16 Softwoods are resinous and have good tensile resistance (a) True (b) False
- 17 Hardwoods are widely used for doors, furniture and joinery because they have both good tensile and shear resistance (a) True (b) False
- 18 Any chemical used for wood preservation must be inflammable and should not be poisonous for insects and fungi (a) True (b) False
- 19 In butt joint, the ends are left square while in mitered butt joint, the ends are left at 45 degree angle (a) True (b) False
- 20 Chemicals used for preservation of wood should be poisonous for insects and fungi (a) True (b) False

In fixed position lay out:

- 21 The movement of materials, men, and tolling is increased (a) True (b) False
- 22 It is not flexible to changes in the product design and processes. (a) True (b) False
- 23 The movement of machines to production points is cheap. (a) True (b) False
- 24 The highly skilled workers are not required. (a) True (b) False

In machine tool operation:

- 25 Worn spanners and nuts, especially on machine parts are safe. (a) True (b) False
- 26 Tools should be thrown on top of one another (a) True (b) False
- 27 Work is secured in the vice after any cutting. (a) True (b) False
- 28 In lathe operation, the workpiece is stationary with the cutter. (a) True (b) False
- 29 In miller operation, the cutter is stationary while the workpiece rotates. (a) True (b) False

- 30 There are only five basic machine tools in any standard workshop. (a) True (b) False
- 31 Feed means the rate of production of chips. (a) True (b) False
- 32 There are four types of chips. (a) True (b) False
- 33 Every basic machine tool must have a head and tail stock. (a) True (b) False
- 34 The headstock in the machine tool contains all the fixtures (a) True (b) False
- 35 The disadvantages of welded joints includes possibility of distortion of members (a) True (b) False
- 36 All the welding processes can be grouped under Autogenous, Homogeneous, Heterogeneous (a) true (b) false
- 37 There are only nine precautions to the use of Micrometer. (a) True (b) False
- 38 The drilling tools called drills are used for making square holes in the workpiece. (a) True (b) False
- 39 Arc welding is a fusion welding process without heat obtained. (a) True (b) False
- 40 Anvil is made of mild steel with hardened working surface. (a) True (b) False
- 41 Taper turning is an operation of producing Surface (a) Conical (b) Hexagonal surface (c) Rectangular (d) None of the above
- 42 Step turning can be done on the lathe machine. (a) True (b) False
- 43 is an operation of smoothing a previously drilled hole (a) Boring (b) Reaming (c) Threading (d) Knurling
- 44 Which of these is not a work holding device used on a lathe (a) Face plate (b) Chuck (c) Lathe dog (d) Saddle
- 45 Which of the following machine tools uses a multi- point cutting tool (a) Lathe (b) Drilling machine (c) Shaping machine (d) Milling machine
- 46 Which property of gray cast iron makes it suitable for lathe bed (a) Porosity (b) Self-lubricating (c) Brittleness (d) All of the above
- 47 A shaper uses a single point cutting tool. (a) True (b) False
- 48 Which of the following is not a part of a lathe machine (a) Bed (b) Tool post (c) Clapper box (d) Headstock
- 49 is the maximum diameter of workpiece that can be machined on a Lathe machine (a) Taper (b) Swing (c) Center (d) Saddle
- 50 A live center revolves with the workpiece. (a) True (b) False
- 51 is a work holding device used to hold irregularly shaped workpiece that cannot be conveniently held in a chuck (a) Face plate (b) Travelling steady (c) Fixed steady (d) Dead centre
- 52 Knurling can be done on a lathe. (a) True (b) False
- 53 is the operation of dividing a periphery of a cylindrical workpiece into equal number of divisions (a) Indexing (b) knurling (c) Drilling (d) all of the above
- 54 the speed at which the workpiece advances through the cutter is called (a) cutting speed (b) feed rate (c) depth of cut (d) none of the above.
- 55 The operation used to form internal threads is called (a) Drilling (b) Tapping (c) Boring (d) Trepanning
- 56 The lathe machine is used to perform the following operations except (a) Facing (b) Taper turning (c) Boring (d) Sand blasting.
- 57 Which of the following is not a property of a cutting tool (a) High strength (b) Ability to withstand high temperature (c) Wear resistant (d) Malleability.
- 58 The bed of most machine tools are made of (a) Gray cast iron (b) Plastic materials (c) Brass (d) All of the above.
- 59 The Milling machine is associated with (a) Single point cutting tool (b) Multi-point cutting tool (c) All of the above (d) None of the above.
- 60 Taper turning is done on the milling machine. (a) True (b) False