

CENTRAL INSTITUTE OF TECHNOLOGY KOKRAJHAR
(Deemed to be University)
KOKRAJHAR :: BTR :: ASSAM :: 783370

END – SEMESTER EXAMINATION
UG

Session: July-December, 2022 Semester: 1st Time: 3 Hrs. Full Marks: 100
Course Code: UME101 Course Title: Engineering Workshop

ANSWER ANY 5(five) QUESTIONS

- Q.1 a) What are the characteristics of a good timber? (5)
b) What do you understand by artificial seasoning of timber? Describe the different steps involved in artificial seasoning. (10)
c) Sketch and describe the followings (5)
 i) Sash cramp
 ii) Mallet
- Q.2 a) What is the working principle of a lathe machine in Machine Shop? (5)
b) Why are the holding tools used in fitting shop? What are the precautions taken for care of the holding tools? (15)
Write short notes on the following:
 i) Leg vice
 ii) Hand vice
 iii) Pipe vice
- Q.3 a) What are the chisels in fitting operations? Sketch and describe any two of the chisels used in fitting shop. (10)
b) Why are files used in fitting operations? What are the different types of files based on shape or cross section? (5)
c) What are the steps taken in marking operation in bench work? (5)
- Q.4 a) What do you understand by welded joints? Write down the advantages and disadvantages of welded joints. (11)
b) Describe the different types of welded joints. (9)
- Q.5 a) What are the different types of carpentry joints? Sketch and describe. (10)
b) Write short notes on the following: (10)
 i) Wood working lathe
 ii) Mortiser

- Q.6 a) What are the different processes which can be done with a Milling Machine? Sketch and describe. (10)
- b) Describe the taps and dies giving their uses in Fitting Shop. (10)
- Q.7 a) What are the different types of cutting tools in carpentry shop? Describe any four of them with sketches. (10)
- b) Write short notes on the following (10)
- i) Metal arc welding
 - ii) MIG welding