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Programme(UG)/1st Sem/UME101

2023

Engineering Workshop

Full Marks : 100

Time : Three hours

The figures in the margin indicate full marks for the questions.

Answer any five questions.

- Central Institute Of Technology
Rokhili, Bhubaneswar
1. a) What do you mean by “grains in wood”? What are the advantages of timber? 10
- b) What do you understand by artificial seasoning of timber? Describe the different steps involved in artificial seasoning. 10
2. a) Why are files used in fitting operations? What are the different types of files based on shape or cross section?? Sketch and describe any four. 10
- b) What are the various measuring tools used in fitting shop? Sketch and describe any three of them. 10
3. a) What is the working principle of a drilling machine? What are the various operations performed on drilling machine? 10
- b) What are various operations performed on a lathe machine? Sketch and describe any four. 10
4. a) Write short notes on the following: 10
- i) Gas welding
- ii) MIG welding
- b) What do you understand by welded joints? Write down the advantages and disadvantages of welded joints. 10
5. a) What do you understand by up milling and down milling in a milling machine? What are the operations which can be done on milling machine? 10
- b) Describe with neat sketches of the following (Any four): 10
- i) Tenon saw
- ii) Panel saw
- iii) Compass saw
- असतो मा सद्गमय
ज्योतिर्गमय

iv) Firmer chisel

v) Jack plane

6. a) Describe the following with sketch (Any one): 10
- i) Woodworking lathe
- ii) Band saw
- b) What are the various methods of filing using a hand-flat file in fitting shop? 10
Describe them.

