

Total number of printed pages: 2



UG/1st/UME101

2021

ENGINEERING WORKSHOP

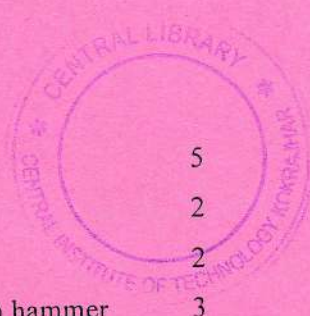
Full Marks: 100

Time: Three hours

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

Answer any five questions.

1. a) Write down the working principle of lathe machine. 5
b) Define the following 3×5
 - (i) Headstock
 - (ii) Tail stock
 - (iii) Carriage
 - (iv) Tool Post
 - (v) Centres
2. a) Write down the safety precautions for workshop. 5
b) What are the principal parts of Lathe machine? 7
c) List down the operations that can be performed on lathe machine 8
3. a) What is welding? 3
b) Describe the different types of welding? 12
c) Name the tools required in welding. 5
4. a) What is the purpose of carpentry shop? 3
b) Name some cutting tools in carpentry shop? 5



- c) Name some marking tools in workshop? 5
- d) What is the use of try square? 2
- e) What is the use of metal jack plane? 2
- f) How will you differentiate between ball peen hammer and cross peen hammer? 3
- 5. a) Why do we need apron? 3
- b) What is the use three jaw chuck? 2
- c) Explain the following with the help of neat sketches. 15
 - i) Ball peen hammer
 - ii) Hacksaw
 - iii) Flat file
- 6. a) What is the function of a drill machine? 3
- b) Describe the function of bench vice. 3
- c) State the function of divider. 3
- d) What are the different measuring tools in fitting shop? 5
- e) What is the use of centre punch? 3
- f) What is least count? 3
- 7. a) Name the various cutting tools in fitting shop. 5
- b) Describe the process of thread making in fitting shop? 3
- c) Name the carpentry process. 3
- d) Write down the safety precautions in welding shop. 3
- e) Write down the function of grinding wheel. 2
- f) Write down importance of anvil in fitting shop. 2
- g) Write down the differences between hard wood and soft wood. 2