

MAHARASHTRA ANIMAL AND FISHERY SCIENCES UNIVERSITY, NAGPUR
SEMESTER END THEORY EXAMINATION, B.Tech. (D.T.) Degree Course 2016-17

Semester	: I (V Dean)	Academic Year	: 2016-2017
Course No.	: DE-101	Course Title	: Workshop Practice
Credits	: 1+1=2	Total Marks	: 50
Day & Date	: Saturday, 07/01/2017	Time	: 11.00 to 13.00 Hrs

- Note :
- 1) All questions carry equal marks.
 - 2) **Section "A"** is Compulsory.
 - 3) Solve **Any three** questions from **Section "B"**
 - 4) The use of scientific tables, charts and calculator is allowed in case of engineering courses.

SECTION - 'A'

- Q. 1 A) Answer in one line. (05)
- i) Write the name of tools used for measuring outside and inside diameters of any object.
 - ii) Write the name of process of setting out dimensions on a piece of wood for producing the required shape.
 - iii) What do you mean by seasoning of wood?
 - iv) What do you mean by taper turning?
 - v) Write the name of tools used for screwing or unscrewing screws used in wood work.
- B) Write the functions / uses of the followings. (05)
- i) Welding torch
 - ii) Anvil
 - iii) Reamers
 - iv) Pincer
 - v) Drill
- Q. 2 A) State whether True or False. If false, rewrite the statement after making necessary corrections. (05)
- i) Spirit level is used for testing the horizontal position of large surfaces.
 - ii) The pipe vice is used for holding round material of small diameter such as wire and pin during working.
 - iii) Material used for coating the electrode is called flux.
 - iv) Mitre squares are used to measure an angle of 90° .
 - v) Cross-cut saws are used for cutting along the grain in thick wood.
- B) Choose the most appropriate answer from the options given below. (05)
- i) In arc welding, the arc is produced between the work and the electrode by
 - a) Voltage
 - b) Flow of current
 - c) Contact resistance
 - d) All of these
 - ii) Which of the following welding process uses non-consumable electrodes?
 - a) TIG welding
 - b) MIG welding
 - c) Manual arc welding
 - d) Submerged arc welding

(P.T.O.)

- iii) The fullers are used
- | | |
|--------------------------------|-------------------------------------|
| a) For finishing flat surfaces | b) For necking down a piece of work |
| c) For punching a hole | d) To finish the punched hole |
- iv) A neutral flame is obtained by supplying
- | | |
|--|---------------------------------------|
| a) Equal volumes of oxygen and acetylene | b) Equal volumes of oxygen and helium |
| c) Equal volumes of argon and acetylene | d) None of these |
- v) The type of file used for a wood work is
- | | |
|--------------------|--------------------|
| a) Single cut file | b) Double cut file |
| c) Rasp cut file | d) All of these |

SECTION –‘B’

- Q. 3 A) Write the construction and working principle of lathe machine. (05)
 B) With neat sketches describe the various smithy tools and equipments. (05)
- Q. 4 A) Draw a sensitive drilling machine showing different parts. (05)
 B) Explain the different types of saw with neat sketch. (05)
- Q. 5 A) Differentiate the soldering and brazing operation. (03)
 B) Define accidents. List various causes of accidents. (03)
 C) Enlist and Explain boring tools. (04)
- Q. 6 A) What do you mean by upsetting and drawing down operations? (03)
 B) Give the purpose of heat treatment. (03)
 C) Describe in brief the equipment required for oxy-acetylene welding. (04)
- Q. 7 Sketch and describe uses of commonly used: a) measuring and marking tools b) cutting tools c) striking tools. (10)
