

MAHARASHTRA ANIMAL AND FISHERY SCIENCES UNIVERSITY, NAGPUR
SEMESTER END THEORY EXAMINATION, B. TECH. (D.T.) DEGREE COURSE 2018-19

Semester	: I (V Dean)	Academic Year	: 2018-2019
Course No.	: DE- 101	Course Title	: Workshop Practice
Credits	: 1+1=2	Total Marks	: 50
Day & Date	: Monday, 07/01/2019	Time	: 11.00 to 13.00 Hrs.

- Note :**
- 1) All questions from **Section 'A'** are compulsory.
 - 2) Solve **Any Three** questions from **Section 'B'**.
 - 3) All questions carry equal marks.

SECTION – 'A'

Q. 1. A) Choose and indicate the most appropriate answer for the following. (05)

- i) is the commonly used gas in inert gas welding.
 - a) Hydrogen
 - b) Argon
 - c) Oxygen
 - d) None of these
- ii) An oxidising process used for aluminium and magnesium articles is called
 - a) Glavanizing
 - b) Anodizing
 - c) Parkerising
 - d) Sherardizing
- iii) A device used for holding and rotating a hollow piece of work is called
 - a) Rip Saw
 - b) Mandrel
 - c) Chuck
 - d) Spindle
- iv) A portable drilling machine is specified by
 - a) Power of machine
 - b) Weight of machine
 - c) Maximum diameter of the drill that it can hold
 - d) Diameter of the column and length of the arm
- v) The size of a shaper is denoted by
 - a) Power of machine
 - b) Dimensions of machine
 - c) Length of stroke
 - d) Speed of operation

B) Define the following. (05)

- i) Annealing
- ii) Normalizing
- iii) Brazing
- iv) Forging
- v) Arc Cutting

Q. 2 A) Describe briefly. (05)

- i) Soldering
- ii) Beveled joint
- iii) CNC Machines
- iv) Tailstock
- v) Lead screw

(P.T.O.)

- B) Write down the functions of the following in one line. (05)
- i) Files
 - ii) Die
 - iii) Green Sand mould
 - iv) Mandrel
 - v) Anvil

SECTION – 'B'

- Q. 3 Draw a neat sketch of standard shaper and describe its construction in details. (10)
- Q. 4 A) Enlist the marking and measuring tools and discuss any one in detail. (05)
B) Enlist and discuss the smithy and forging operations. (05)
- Q. 5 A) Explain the main parts of lathe machine with a neat sketch? (05)
B) What are the operations that can be performed on lathe machine? (05)
- Q. 6 Answer the following.
- A) What is the role of coated electrode in arc welding? (05)
 - B) What are the various types of joints used in welding? Explain any one. (05)
- Q. 7 Differentiate between electric arc welding and gas welding; with the help of neat sketch explain the types of flames produced in gas welding. (10)
