

MAHARASHTRA ANIMAL AND FISHERY SCIENCES UNIVERSITY, NAGPUR
SEMESTER END THEORY EXAMINATION, B.Tech. (D.T.)

Semester	: I-(V Dean)	Academic Year	: 2021-2022
Course No.	: DE-101	Course Title	: Workshop Practice
Credits	: 1+1=2	Total Marks	: 50
Day & Date	: Tuesday, 17/05/2022	Time	: 02:30 hrs

- Note :**
- 1) All questions from **Section 'A'** are compulsory.
 - 2) Solve **Any Three** questions from **Section 'B'**.
 - 3) Draw neat and well labelled diagram wherever necessary.

SECTION - 'A'

Q. 1 A) Choose the most appropriate answer from the options given below. (05)

- i) In lathe machine holds the job in proper position.
 - a) Tail stock
 - b) Head stock
 - c) Chuck
 - d) Tool post
- ii) The part of anvil is used in bending the metal or forming curved shapes
 - a) Horn or beak
 - b) Hardie hole
 - c) Pritchel hole
 - d) none of above
- iii) is used for finishing corners, formed by two adjacent surfaces at right angles.
 - a) Fuller
 - b) Swage
 - c) Flatter
 - d) Set hammer
- iv) Which of the following fuel is used in forging work, only when very high temperatures are needed?
 - a) Coal
 - b) Coke
 - c) Charcoal
 - d) Lignite
- v) In case of oxy acetylene gas welding, oxygen hose hascolor.
 - a) Red
 - b) Green
 - c) Black
 - d) White

B) Describe in one sentence: (05)

- i) Annealing
- ii) Gimlet
- iii) Reaming
- iv) Drawing down
- v) Taps

Q. 2 A) Match the pairs. (05)

Column - 'A'

- i) Set hammer
- ii) Arc welding
- iii) Inside and outside diameter
- iv) Cylindrical surface
- v) Gear cutting

Column - 'B'

- a) Caliper
- b) Turning
- c) Milling
- d) Electrode
- e) Corners

(P.T.O.)

B) State whether True or False. If false, rewrite the statement after making necessary corrections. (05)

- i) Surface plate is used to check the trueness of flat surfaces.
- ii) Rasp-cut type of file is used for a wood work.
- iii) In arc welding, the electric arc is produced between the work and the electrode by voltage.
- iv) The temperature of oxy-hydrogen flame is higher than oxy-acetylene flame.
- v) The fullers are used for necking down a piece of work.

SECTION - 'B'

Q. 3 A) Explain radial drilling machine with neat and well labeled diagram. (05)

B) What are the principal methods of protection against accident? Describe any two in brief. (05)

Q. 4 A) Give name and function of different parts of the lathe machine. (05)

B) Classify and explain the different types of hammers with sketches. (05)

Q. 5 A) Write short note on Bench vice. (03)

B) Enlist the different types of tongs used in forging operation. (03)

C) Write down the process of oxy- acetylene gas welding. (04)

Q. 6 A) Write short notes on Anvil. (03)

B) Explain the construction and working of shaper. (03)

C) Explain any four forging operations. (04)

Q. 7 Explain any four heat treatment processes in detail. (10)
