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B.Sc.(Hons) Aircraft Maintenance (2018 & Onwards) (Sem.-1)

WORKSHOP PRACTICES

Subject Code: BSCARM-105-18 M.Code: 75636

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly:

- (a) Define Tempering Process.
- (b) Define Welding and list various welding processes.
- (c) Explain smithy operation.
- (d) What is template and what is its purpose?
- (e) Define Gear Ratio and velocity ratio.
- (f) List various types of gears.
- (g) What do you mean by surface finish?
- (h) Define Annealing process.
- (i) Explain the significance of countersunk rivets in sheet metal work.
- (j) List various types of rivets used in sheet metal work.



SECTION-B

- 2. Explain the process of drilling. List various types of drills.
- 3. Explain the procedure for pipe inspection.
- 4. Explain the nomenclature of a gear with the help of a neat and labelled diagram.
- 5. List various safety precautions to be undertaken while working in machine shop.
- 6. Write a short note on 'Various forms of Dies'.

SECTION-C

- 7. Discuss various aspects of sheet metal working with the help of sketches. Explain the process of inspection of sheet metal work. (7,3)
- 8. Write notes on the following:
 - (a) Various forms of surface finish and surface finish measurement (5)
 - (b) Types and identification of hydraulic pipes and end fittings (5)
- 9. Explain the process of arc welding for preparing a lap and tee joints. List various equipments used during the welding. Write down safety precautions to be undertaken while welding. (5,2,3)

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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