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

WORKSHOP PRACTICES

Subject Code: BSCARM-105-18 Paper ID: [75636]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- 1. 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

Q1 Explain the following:

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



SECTION-B

- Q2 Explain the nomenclature of a gear with the help of a neat and labeled diagram. (5) Q3 List various safety precautions to be undertaken while working in machine shop. (5) Q4 Explain the process of drilling. List various types of drills. (5) Q5 Explain the procedure for pipe inspection. (5) Write a short note on 'Various forms of Dies'. Q6 (5) **SECTION-C**
- 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)
- Discuss various aspects of sheet metal working with the help of sketches. Explain the Q8 process of inspection of sheet metal work. (7,3)
- 09 Write notes on the following: (2×5)
 - a) Various forms of surface finish and surface finish measurement.
 - b) Types and identification of hydraulic pipes and end fittings.

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