

Roll No.						Total No. of Pages :	02

Total No. of Questions: 09

B.Sc. (Hons) Aircraft Maintenance (2018 Batch) AIRCRAFT MATERIALS AND HARDWARE

Subject Code: BSCARM-302-18 M.Code: 76600

Max. Marks: 60 Time: 3 Hrs.

INSTRUCTIONS TO CANDIDATES:

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

SECTION-A

1. Write briefly:

- siRanker com (a) Ferrous and Non-ferrous materials
- (b) Non-metallic materials
- (c) Characteristics of wood
- (d) Types of defects in fabric
- (e) Screw nomenclature
- (f) Self tapping screws
- (g) Dimpling
- (h) Blind rivets
- (i) Bolt specifications
- (i) Dowels



SECTION-B

- 2. Write a note on 'methods for inspection of fabrics'.
- 3. Define composites. Explain the techniques to detect defects in composites.
- 4. Explain various types of defects in wooden material and wooden structure.
- 5. Explain the various tools used for riveting and dimpling.
- 6. Explain various thread forms. Explain the dimensions and tolerances for standard threads used in aircraft.

SECTION-C

7. Write notes on the following:

(a) Locking devices (5)

(b) Types and heat treatment of solid rivets (5)

- 8. What are the common non-ferrous materials used in aircrafts? Explain characteristics, properties and identification of commonly used non-ferrous materials. (1,9)
- 9. Explain the methods of testing of ferrous materials for hardness, tensile strength, fatigue strength and impact strength. (10)

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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