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B TECH
(SEM II) THEORY EXAMINATION 2018-19
AIRCRAFT RULES AND REGULATION

*Time: 3 Hours**Total Marks: 100***Note:** Attempt all sections. If required, choose any missing data suitably.**Section A****1. Attempt all questions in brief. 2 x 10 = 20**

- a) Explain the rule 5 of aircraft rules.
- b) When the CAR is issued, what are things indicated in the first page?
- c) Name types of operator which should follow MEL.
- d) Define REPAIR.
- e) What is the scope of category C organization?
- f) What is the register of aircraft?
- g) Define the Certificate of Airworthiness.
- h) What do you mean by rebuilding of aircraft?
- i) Write about unusable fuel in aircraft.
- j) Write condition for bench check of an instrument.

Section - B**2. Attempt any three of the following. 10 x 3 = 30**

- a) Describe the responsibilities of an operator of aircraft as per CAR section 2.
- b) Write procedure for monitoring of defect by operator and DGCA.
- c) Describe the procedure to be followed by operator for issuance of C of A.
- d) Explain method to determine unusable fuel and calibration of fuel quantity gauges.
- e) Name the instruments to be installed in aircraft operated for night flying and write their function in brief.

Section - C**3. Attempt any one part of the following. 10 x 1 = 10**

- a) Describe the procedure for framing of MEL.
- b) Explain powers of central government to make order in emergency under Aircraft Act 1934.

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4. Attempt any one part of the following **10 x 1 = 10**

- a) In category C organisation, explain requirement of quality control.
- b) Describe procedure to be adopted for reporting and rectification of defects on all aircraft except public transport aircraft.

5. Attempt any one part of the following **10 x 1 = 10**

- a) Write about certificate of registration. Explain the validity of aircraft registration.
- b) What are the points to be taken in consideration for the airworthiness of an ageing aircraft?

6. Attempt any one part of the following **10 x 1 = 10**

- a) Explain the safety precautions to be taken against static electricity discharge, bonding and earthing.
- b) Explain CVR and write the general requirements for the CVR to be used in aircraft.

7. Attempt any one part of the following **10 x 1 = 10**

- a) Explain the necessity of flight test for the aircraft which has been issued C of A previously.
- b) Define first aid kit and explain the content of first aid kit in aircraft.