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JAYA GROUP OF INSTITUTIONS-THIRUNINRAVUR  
6<sup>th</sup> SEM – B.E. / B.Tech  
INTERNAL ASSESSMENT-1(MODEL EXAM-1)

Sub. Name: AIRCRAFT GENERAL ENGINEERING & MAINTENANCE PRACTICES

Sub. Code: AE 2022

Duration: 180 minutes

Date: 27-01-2015

Branch: Aeronautical

Max.Marks: 100

**PART-A**

**10X2= 20**

1. Define Shop safety
2. Write any two do's and don'ts applicable to safety around compressed gases
3. What are the major types of fire and their extinguishers?
4. What are the safety precautions to be adhered to while moving around a helicopter?
5. What are the checks to be carried out on a fire extinguisher?
6. List down the instruments/gauges to be monitored while starting an aero-engine.
7. What is sub-cooling?
8. What do you mean by shirt sleeve environment?
9. Why do you need a hydraulic trolley?
10. Define Purging.

**PART-B**

**5X16= 80**

- 11 (a) Discuss in detail about Jacking and leveling of an aircraft

Or

- 11(b) Write short notes

- (i) Safety around drilling machine; (6)
- (ii) Safety around grinding machine (4)
- (iii) Safety around welding equipment (6)

- 12 (a) Describe the starting procedure of a piston engine

Or

- 12 (b) Discuss briefly about towing operation of an aeroplane

- 13 (a) Explain the fueling and defueling procedure of an aircraft

Or

- 13 (b) Write short notes on

i. Tie-down procedure of Light Aircraft and heavy aircraft. (8)

ii. Mooring procedure of Helicopter (8)

14 (a) Discuss in detail about the taxiing procedure of an aircraft

Or

14 (b) Explain the starting procedure of Turboprop aeroplane

15 (a) Discuss briefly about air cycle and vapor cycle cooling systems.

Or

15 (b) Describe about aircraft pressurization system.

ALL THE BEST

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