

JAYA GROUP OF INSTITUTION-THIRUNINRAVUR
6th SEM – B.E. / B.Tech
INTERNAL ASSESSMENT-3(MODEL EXAM-III)

Sub. Name: Aircraft General Engineering & Maintenance Practices

Date: 10/04/2015

Sub. Code: AE-2022

Branch: Aeronautical

Duration: 180 minutes

Max.Marks: 100

Part A

10X2=20

1. State the salient points of starting procedure of a turbojet engine
2. What are the instances during which aircraft will be jacked?
3. What is purging?
4. Define Anoxia & Hypoxia.
5. What do you understand by Bulletins?
6. Explain the role of FOD in affecting the Flight Safety.
7. What are the aeronautical inspection publications?
8. What is Airworthiness Directives?
9. List down different types of rivets used in aircraft.
10. Draw a neat sketch of a Twist Drill and name its parts.

Part B

5X16=80

- 11.(a) Discuss about the starting procedure of Piston Engine

OR

(b) Write short notes on;

- (i) Fire and types of Fire (4)
- (ii) Fire Extinguishing agents (8)
- (iii) Inspection procedure of Fire Extinguishers (4)

12. (a) (i) Illustrate the maintenance procedure of an air-conditioning system of an aircraft (10)

(ii) Explain about Air cycle Machine (6)

OR

- (b) (i) With a neat sketch, explain about the operating procedure of Cabin oxygen system (10)

(ii) Briefly elucidate about Chemical oxygen generator (6)

13. (a) . (a) Portray about FACTOR(s)

OR

(b) (i) Depict about MSDS (10)

(ii) Explain the procedure for Disposal and Accidental release of hazardous material (6)

14. (a) Write Short notes on;

(i) Hard or overweight Landing Inspection (4)

(ii) Inspection on Flight through Severe Turbulence (4)

(iii) ATA 100 (8)

OR

(b) Prepare a checklist for inspecting various sections and subsections of an aircraft

15. (a) Explain in detail about swaging procedure of aircraft cable and also about proof loading

OR

(b) Describe the procedure for identification of fluid lines and fittings, tube bending and pipe flaring

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