



B.E DEGREE EXAMINATIONS: APRIL/ MAY 2016

(Regulation 2009)

Eighth Semester

AERONAUTICAL ENGINEERING

AER143: Aircraft Maintenance Management

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. SARP stands for_____.
 - a) Stall and Range Practices
 - b) Standard and Recommended Project
 - c) Standard and Recommended Practices
 - d) Service and Record Practices
2. The most elementary form of routine inspection is_____.
 - a) Visual Inspection
 - b) Special Inspection
 - c) Overhaul
 - d) On line maintenance
3. _____ used to minimize the cost and increase the revenue of the airline.
 - a) Fleet planning
 - b) Scheduling
 - c) Route analysis
 - d) Budgeting
4. The ratio of passenger. Km to total no. Seats.Km is called as _____.
 - a) Aircraft Utilization
 - b) GDP
 - c) Load factor
 - d) Airline revenue ratio
5. Which one of the following is not an airline scheduling method?
 - a) Skip-stop
 - b) Long service
 - c) Local service
 - d) Cross connections
6. International passenger tariff is fixed by_____.
 - a) DGCA
 - b) ICAO
 - c) IATA
 - d) BCAS
7. _____ is a measure of the overall effectiveness of the airline operation with respect to on-time departure.
 - a) Dispatch reliability
 - b) Redundancy
 - c) Overall reliability
 - d) Airworthiness
8. EROPS stand for_____

- [illegible]

PART B (10 x 2 = 20 Marks)

11. List down the roles of IATA.
12. What is 'Open skies' agreement?
13. Write down the importance of fleet planning in aircraft economics.
14. What are the differences Macro and Micro economics?
15. What is fleet assignment and aircraft routing?
16. Define budgeting.
17. What are the differences between quality control and quality assurance?
18. What is inherent reliability?
19. What are the differences between Process-oriented and Task-oriented maintenance?
20. Define Hub and spoke scheduling.

PART C (5 x 14 = 70 Marks)

21. a) (i) List the factors affecting General aviation. (7)
- (ii) Explain the role of ICAO. (7)

(OR)

- b) Explain the structure of an airline management.

22. a) (i) Explain the purpose of Airline budgeting. (7)
- (ii) Describe the factors affecting the cost of passenger fare. (7)

(OR)

- b) What is cost planning? List the benefits of cost planning and factors in successful cost planning.

23. a) Explain Hub and spoke scheduling with sketches.

(OR)

b) Describe the factors to be considered for scheduling aircraft fleet and maintenance.

24. a) Explain the principle of maintenance scheduling and its determination in aircraft industry.

(OR)

b) Explain the Airline engineering and maintenance requirements.

25. a) Describe the process followed for turbine engine vibration monitoring in aircraft.

(OR)

b) Explain the following

(i) Aircraft weight control (7)

(ii) Budgetary control (7)
