Question 1

This question is about aviation authority legislation. Consider the following JAR / FAR regulations; Part 25, Part 91, Part 91 Subpart K, Part 121 and Part 135. Explain what each of them means and describe the different ways in which they impact on business aviation. Discuss the recent issues concerning possible changes to business aircraft certification categories, and what this may mean to the industry.

[20 marks]

Question 2

(a) List some of the main operational and performance requirements required for today's business jets in order to enable them to operate effectively within both the existing air transport infrastructure, and also away from main airport hubs at regional and local airfields.

[10 marks]

(b) How are business jets in differing size and performance categories classified? Explain the reason for the classification, give two examples and state which types of customer or operator your examples are designed for.

[10 marks]

Question 3

(a) In order to justify the purchase or lease of a business aircraft, a corporation must identify the potential benefits to their business. List five of the major benefits and explain your reasoning for each one.

[10 marks]

(b) Business aircraft generally have a much lower annual utilisation than commercial airliners. What are the benefits and the problems of low utilisation? How might a corporate operator improve utilisation during periods when his aircraft is not required on company business, and what issues must he consider before doing so?

[10 marks]
**Question 4**

(a) What do current market forecasts have to say about business aircraft industry growth in the next 10 years? Your answer should include discussion of the individual aircraft manufacturers market share, and an approximate indication of sales in the main business jet categories and ownership types.

[14 marks]

(b) A recent survey of business aircraft operators who expected to see an increase in annual flying hours demand asked them how they would achieve that. What options and approximate percentages were revealed by the survey?

[6 marks]

**Question 5**

(a) How does the flight safety performance of business aviation compare with other forms of aviation? What are the main challenges to the safe operation of business aircraft?

[6 marks]

(b) Describe the function of a Safety Management System (SMS) in a corporate flight department as contained within IS-BAO. What procedures must the flight department adopt in order to establish their risk management profile? What should the company’s strategy be to ensure the highest possible levels of safety performance?

[14 marks]

**Question 6**

(a) Select one of the major non-Governmental, non-regulatory business aircraft trade associations. Who does it represent? What are its main functions? What part does it have to play in influencing day-to-day operations by the business aircraft community?

[12 marks]

(b) One of the major challenges to business aircraft operations today is retaining access at major airports; what part do the major trade associations have to play in this? What are the airport operators reasons for restricting access?

[8 marks]
Question 7

This question is about fractional ownership programmes.

(a) Who started fractional ownership programmes and why? [3 marks]

(b) What are the basic principles behind the fractional ownership model of business jet operation? [4 marks]

(c) What are some of the questions that must be answered by a company when assessing whether or not to enter a fractional ownership programme? [5 marks]

(d) How are fractional share monthly costs made up? Your answer should explain the different cost categories involved. [4 marks]

(e) What recent developments have been introduced to broaden the scope and appeal of fractional programmes? [4 marks]

Question 8

Describe the International Standards for Business Aircraft Operations (IS-BAO). Who has put these proposals together and what are the main drivers for their introduction? What areas of operations does IS-BAO cover? Describe the breakdown of the standard in general terms, giving an indication of the content of each major section. [20 marks]

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