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**UTHM**

Universiti Tun Hussein Onn Malaysia

**UNIVERSITI TUN HUSSEIN ONN MALAYSIA**

**FINAL EXAMINATION  
SEMESTER II  
SESSION 2022/2023**

- COURSE NAME : AVIATION MANAGEMENT SYSTEM
- COURSE CODE : BDX 30803
- PROGRAMME CODE : BDX
- EXAMINATION DATE : JULY/AUGUST 2023
- DURATION : 3 HOURS
- INSTRUCTION :
1. ANSWER ALL QUESTIONS.
  2. THIS FINAL EXAMINATION IS CONDUCTED VIA **CLOSED BOOK**.
  3. STUDENTS ARE **PROHIBITED** TO CONSULT THEIR OWN MATERIAL OR ANY EXTERNAL RESOURCES DURING THE EXAMINATION CONDUCTED VIA CLOSED BOOK

THIS QUESTION PAPER CONSISTS OF **FOUR (4)** PAGES

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- Q1** (a) List THREE (3) types of essential management skills that any manager ought to possess for them to perform their duties.  
(6 marks)
- (b) With the aid of diagram, differentiate between Hub and Spoke model and Point to Point model and provide the example calculation of the route between these models.  
(10 marks)
- (c) How can Air Traffic Controllers ensure the safety of planes during unexpected events such as mechanical failures or emergencies?  
(4 marks)
- Q2** (a) Airline regulations are a set of rules created and maintained by aviation authorities and associations such as International Civil Aviation Organization (ICAO) and International Air Transport Association (IATA). Analyze the difference between ICAO and IATA.  
(12 marks)
- (b) An aircraft manufacturing company need to comply with the specific Aerospace Quality Management Systems AS9120. Explain FOUR(4) benefits of applying this quality system.  
(8 marks)
- Q3** (a) List down TWO (2) possible privileges that a Design Organization Approval (DOA) holder could obtain?  
(4 marks)
- (b) Notice 96 provides details to supplement the Civil Aviation Regulation (CAR) in respect of Design Organization Approval (DOA). Summarize the findings in Department of Civil Aviation Malaysia Airworthiness Notice 96.  
(16 marks)

**Q4** (a) Based on your knowledge in potential work hazard severity and likelihood, prepare a Hazard Identification, Risk Assessment and Risk Control (HIRARC) table that shows THREE (3) examples of criteria and the levels on your risk for each items related to an operation of an aircraft manufacturing.

(14 marks)

(b) Configuration Management is a methodology which provides a technical and administrative framework for managing the development, manufacturing and maintenance of configuration items. Provide THREE(3) examples of objectives for Configuration Management.

(6 marks)

**Q5** (a) **Figure Q5(a)** shows an aerospace materials market size from year 2021 to 2030, produced by Precedence Research. As the aircraft manufacturing industry is a relevant example of a global industry, many aircraft manufacturers try produce parts in different areas of the world. Based on the graph in **Figure Q5(a)**, justify the decision of an aircraft manufacturing industry to transfer its project to another region.

(10 marks)

(b) The COVID-19 pandemic has had a significant impact on the aerospace industry, including its supply chain. What risks and challenges do aerospace companies face in managing their supply chain upon post COVID-19 pandemic?

(10 marks)

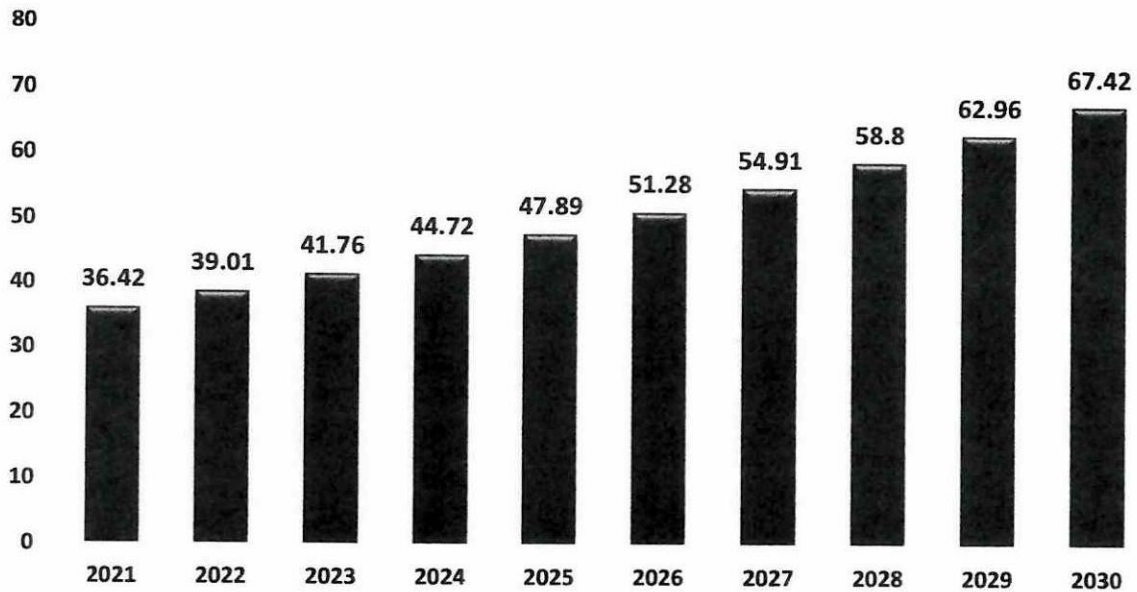
**-END OF QUESTION –**

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**Aerospace Materials Market Size  
From year 2021 to 2030 (in USD Billion)  
Source: Precedence Research**



**Figure Q5(a)**

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