

**Gandhi Institute of Engineering and Technology University, Odisha, Gunupur
(GIET University)**

B. Tech (Second Semester - Regular) Examinations, May 2026

25FYPC12003 – Aircraft Workshop Practices

(Aeronautical Engineering)



Time: 3 hrs

Maximum: 60 Marks

Answer ALL questions

(The figures in the right hand margin indicate marks)

PART – A

(2 x 5 = 10 Marks)

Q.1. Answer **ALL** questions

	CO #	Blooms Level
a. What is the purpose of zone numbers in drawings?	CO3	K1
b. Define a block diagram.	CO3	K1
c. What is the basic hole system?	CO2	K1
d. What is schedule of fits and clearances?	CO2	K1
e. What is dielectric strength?	CO5	K1

PART – B

(10 x 5 = 50 Marks)

Answer **ALL** the questions

	Marks	CO #	Blooms Level
2. a. Explain the transition from microfilm/microfiche to digital documentation in aviation.	5	CO1	K2
b. Explain microfilm and its use in aircraft maintenance documentation.	5	CO1	K2
(OR)			
c. Explain the purpose and importance of Bill of Materials (BOM) in engineering drawings.	5	CO3	K2
d. What is ATA Specification 100? Explain its purpose and give 5 ATA chapter examples.	5	CO3	K2
3.a. Explain the ISO system of limits and fits. Discuss its features and importance in aircraft manufacturing.	5	CO2	K2
b. What is interchangeability? Explain its importance in aircraft maintenance and mass production.	5	CO2	K2
(OR)			
c. Describe limits for bow and twist in shafts and explain their effect on aircraft components.	5	CO2	K2
d. Describe the BS 4500 system. Explain the concept of the basic hole system and its advantages.	5	CO2	K2
4.a. What is EWIS? Explain its components with examples.	5	CO5	K2
b. Explain continuity in electrical circuits. How is it tested and what precautions must be taken?	5	CO5	K3
(OR)			
c. Explain equipment bonding and its importance in aircraft systems.	5	CO5	K2
d. Explain terminal strips and their importance in aircraft electrical systems.	5	CO5	K2

5.a.	Write short notes on signal loss and interference in co-axial cables and how they are minimized.	5	CO5	K2
b.	Describe common faults in co-axial cables and how they are detected during inspection.	5	CO5	K3
(OR)				
c.	Explain the concept of damage tolerance in aircraft wiring systems.	5	CO5	K2
d.	Explain the importance of proper wire routing and clamping in preventing damage.	5	CO5	K3
6.a.	Describe precautions to be taken during routing and bundling of wires.	5	CO5	K3
b.	Describe heat shrink wrapping technique and its advantages in wiring protection.	5	CO5	K2
(OR)				
c.	Explain how contamination affects aircraft wiring systems and their performance.	5	CO5	K2
d.	Discuss safety precautions to be followed while working on EWIS.	5	CO5	K3
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