

- Q.27 How is modification of service bulletins done?
- Q.28 How is the storage of various aeronautical products done?
- Q.29 What do you mean by Airworthiness? Why is it required?
- Q.30 Write a note on Refueling of A/C and how it's done.
- Q.31 Mention an incident attributable to human error.
- Q.32 Write steps on how to manage human errors.
- Q.33 How is work logging done?
- Q.34 What are the different types of error in maintenance checks?
- Q.35 Which agency provides Certificate of Airworthiness? What is the process to get it?

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Write the step-by-step procedure on the issue of type approval.
- Q.37 Write notes on
- Visual Inspection
 - Work Logging
 - Calibration of A/C Fuel Tanks
- Q.38 Write a note on the Human Performance and Limitations. How can it be worked upon?

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Subject:- Aircraft Rules, Regulations and CAR-II

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Which of the following is the most important criterion in selecting an appropriate fuel to power an aircraft?
- Cost
 - Density
 - Specific energy
 - Efficiency
- Q.2 By correcting the indicated airspeed for nonstandard temperature and pressure, we obtain _____ airspeed.
- Actual
 - Virtual
 - True
 - Relative
- Q.3 Which of the following bodies regulates civil aviation in India?
- DGCA
 - EASA
 - FAA
 - CASA
- Q.4 What is the full form of FADEC?
- Flight Authority Direct Engine Control
 - Flight Authority Digital Engine Control
 - Full Authority Digital Engine Control
 - Full Authority Direct Engine Control

- Q.5 Who is responsible to review the airworthiness certificate, maintenance records, and other required paperwork to verify that the aircraft is airworthy?
- Copilot
 - Aircraft Maintenance Engineer
 - Purser
 - Pilot
- Q.6 In large aircraft, fuel tanks are also present in the _____
- Tail
 - Fuselage
 - Nose
 - Rudder
- Q.7 In power by wire systems, the hydraulic circuit is replaced by an _____ circuit.
- Electrical power
 - Thermal power
 - Electronic power
 - Mechanical power
- Q.8 Which is the most expensive maintenance check of all?
- A-Check
 - D-Check
 - C-Check
 - B-Check
- Q.9 One of the disadvantages of radiography is that it is _____
- destructive
 - faster
 - temporary record
 - time-consuming
- Q.10 When radiographs are produced to detect defects, they show up as _____
- tubes
 - dark spots
 - invisible spots
 - light spots

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 How to build effective communication in Human Resources?
- Q.12 How is work recording done?
- Q.13 Why are controlling human errors important?
- Q.14 Which agency takes care of approval of aircraft permits in India?
- Q.15 Give an example of potential hazard while flying
- Q.16 Where are trim sheets used?
- Q.17 Can you give an example of human error?
- Q.18 What do you mean by Defect Recording?
- Q.19 What do you mean by Air worthiness?
- Q.20 What are the implications of error on functioning of aircraft?

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Write a brief note on effects of Vibration on Aircraft Performance.
- Q.22 How is the issue of type approval done? Explain in detail.
- Q.23 What are Quarantine stores? When are they used?
- Q.24 What are the cultural issues that can affect Human Performance?
- Q.25 How are registration markings done?
- Q.26 How are markings done ? Explain in detail.