

B.E. (Aeronautical Engineering) Eighth Semester (C.B.S.)
Elective - II : Airframe Maintenance & Repair

P. Pages : 2

Time : Three Hours



NIR/KW/18/3732

Max. Marks : 80

- Notes :
1. All questions carry marks as indicated.
 2. Solve Question 1 OR Questions No. 2.
 3. Solve Question 3 OR Questions No. 4.
 4. Solve Question 5 OR Questions No. 6.
 5. Solve Question 7 OR Questions No. 8.
 6. Solve Question 9 OR Questions No. 10.
 7. Solve Question 11 OR Questions No. 12.
 8. Illustrate your answers whenever necessary with the help of neat sketches.

1. a) Why is inert gas used in inert gas welding? Give the classification on inert gas welding. **10**
Explain each briefly.

b) Write the assumption for general rivet repair design. **4**

OR

2. a) Explain different soldering processes & also about the difference between them. **14**

3. a) Differentiate between thermoplastic & thermoset plastic & Transparent plastic. **5**

b) Is it possible to use NDT Methods for inspection of composite? Explain. **8**

OR

4. a) Explain in details about fiber glass components in modern aircraft construction. **6**

b) Describe the procedure followed to repair the molded mat fibre glass assembly. **7**

5. a) Explain the principle of Balancing. **5**

b) Explain procedure for aircraft C.G. location. **8**

OR

6. a) Discuss about Helicopter vibration in brief. **5**

b) List the different methods for tracking main rotor blades and explain in details about any one method. **8**

7. a) Describe Landing gear system. **7**

b) Air conditioning system. **7**

OR

8. a) Describe in details Aircraft pressurization system. 7
b) What are different trouble shooting & maintenance practice used in aircraft. 7
9. a) Describe the fire protection system. 7
b) Explain the position & warning system. 6

OR

10. a) Explain Ice protection system. 7
b) Describe Rain Removal system. 6
11. a) Five basic Requirements of Hazardous communication program. 6
b) Disposal & accidental Release of Hazardous Materials. 7

OR

12. a) What are the frequently found toxins of aviation industry & their effects. 7
b) What are 'physical and biological Hazards? 6
