

B.E. (Aeronautical Engineering) Semester Seventh (C.B.S.)
Aircraft General Engineering & Maintenance Practices

P. Pages : 2

KNT/KW/16/7528

Time : Three Hours



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. Due credit will be given to neatness and adequate dimensions.
 9. Assume suitable data whenever necessary.
 10. Illustrate your answers whenever necessary with the help of neat sketches.
 11. Use of non programmable calculator is permitted.

1. a) Explain in detail about the prestart procedure of a turboprop engine. **4**
- b) Explain about the propeller swinging starting procedure for a piston engine aircraft. **5**
- c) Explain about the preflight operations should carried out for a turbojet engine aircraft. **5**

OR

2. a) Explain in detail about towed and self-propelled electrical power equipment's. **5**
- b) Explain in detail about aircraft tie-down procedure. **5**
- c) What are the cares should be taken when an air craft is to be exposed to extreme cold weather conditions? **4**
3. a) What are the cabin pressurization operational checks ? Explain in detail. **8**
- b) What is cabin pressurization trouble shooting? Explain in detail. **5**

OR

4. Write short notes on the following: **13**
 - i) Aircraft general oxygen system.
 - ii) Oxygen plumbing.
 - iii) Oxygen system valves.
5. a) What are the common types of drills using in the aircraft maintenance shop? Explain in detail. **8**
- b) List out the typical procedures should be followed for sharpening drills in aircraft maintenance shop. **5**

OR

6. a) What are the common methods should follow for using files in aircraft maintenance shop? Explain in detail. **8**
- b) What are the cares should be taken after using files? **5**
7. a) What are the check lists and what it should include in it? **8**
- b) Briefly explain about the special inspections carried out during severe turbulence. **5**

OR

8. a) Describe in detail about types of publications used in the aircraft maintenance. **7**
- b) Write a note on "Aircraft Logs". **6**
9. Write a note on the following. **13**
- i) Aircraft general - purpose bolts.
 - ii) Close-tolerance bolts.
 - iii) Internal - wrenching bolts.
 - iv) Special purpose bolts.

OR

10. Write short notes on the following. **13**
- i) Turnlock fasteners
 - ii) Control cables.
 - iii) Safety methods for different aircraft hardware's.
11. a) Write in detail about aircraft tubing procedures. **7**
- b) Write briefly about identification & coding for aircraft tubing. **7**

OR

12. a) Write briefly about aircraft hoses. **7**
- b) Explain briefly about cable 'swaging' & 'Splicing' procedures. **7**
