

2023
B.A./B.Sc.
Fourth Semester
GENERIC ELECTIVE – 4
NCC
Course Code: NCG 4.11(B)
(NCC: Air Wing)

Total Mark: 70
Time: 3 hours

Pass Mark: 28

Answer five questions, taking one from each unit.

UNIT-I

1. (a) Describe the impacts of precipitation in aviation. Discuss the structure of atmosphere. 3+4=7
(b) Elucidate on the three classifications of clouds and their various forms. 7
2. (a) What are aero-engines? Explain with a diagram the various components of an aero-engine. 2+5=7
(b) With the help of a diagram, explain the operation of a jet engine. 7

UNIT-II

3. Define air navigation. Explain in detail the requirement and importance of navigation in aviation. 14
4. Give account on the two prominent members of the Indian Air Force, Marshal Arjan Singh and Wing Commander Rakesh Sharma. 14

UNIT-III

5. (a) Define aeromodelling. Write a note on the history of aeromodelling. 7
(b) Describe in detail the materials used in aeromodelling. 7

6. Elaborate in detail the processes involved in the construction of the following *any two* aeromodels: 7×2=14
- (a) Static models
 - (b) Control line models
 - (c) Remote control models

UNIT-IV

7. (a) Define disaster management. Explain the various types of disasters. 2+5=7
- (b) Discuss the organisation of rescue parties and their function. 7
8. (a) List out in detail the dos and don'ts of NCC cadets during disaster management duties. 7
- (b) State any seven objectives of traffic police during disaster. 7

UNIT-V

9. Explain in detail the Fundamental Rights provided in the Constitution of India along with their articles. 14
10. (a) Write down at least eight fundamental duties of a citizen as given in the constitution of India. 7
- (b) Explain in detail the Gandhian principles given in the Directive Principles of State Policy. 7
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