

**Roll No.**

**Total No. of Pages : 02**

**Total No. of Questions : 18**

**B.Sc. (Hons) Aircraft Maintenance (2018 Batch) (Sem.-3)**

## HUMAN FACTORS

**Subject Code : BSCARM-303-18**

**M.Code : 76601**

**Time : 3 Hrs.**

**Max. Marks : 60**

**INSTRUCTIONS TO CANDIDATES :**

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**

## SECTION-A

**Attempt the following :**

1. What is the need to take human factors into account in aviation?
2. What is ‘Murphy’s Law’?
3. How claustrophobia affects human performance?
4. What do you mean by ‘advanced job aid tools’?
5. How repetitive tasks affect human performance?
6. How underload affects human performance?
7. What is ‘SHEL model’?
8. What do you mean by ‘Error Prevention’?
9. List various physical environmental factors affecting human performance.
10. List various types of errors in maintenance tasks.

### SECTION-B

11. Explain few incidents attributable to human errors. (5)
12. What are the ways to recognize and avoid hazards? (5)
13. What are various factors causing stress and how these factors affect human performance? (5)
14. Explain how negligence in information exchange and communication affects performance? (5)
15. Explain the effect of 'Automation & Computerization' on human performance. (5)

### SECTION-C

16. How following factors affect human performance?
  - (a) Health (2)
  - (b) Shift work (2)
  - (c) Alcohol (2)
  - (d) Drug abuse (2)
  - (e) Fatigue (2)
17. List and explain how various social psychological factors affect human performance? (1,9)
18. Explain the following with respect to human factors :
  - (a) Dealing with emergencies (4)
  - (b) Implications of errors (4)
  - (c) Dirty dozen (2)

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**