UNIT 1: ANTI-ICE AND DEICE SYSTEMS

EXERCISES

1. MATCH A AND B.

A	B
1. accumulation	……..a.זרם חשמלי
2. activate	……..b.מאושר
3. certified	……..c.הותקן
4. deviation	…….d.גילוי
5. compressor	……..e.לנפח
6. conductive material	……..f.אחזקה
7. electrical current	……..g.הצטברות
8. encounter (v)	……..h.לבחון
9. fitted	……..i.מדחס
10.horizontal stabilizer	……..j.להיפגש
11.detection	……..k.להפעיל
12.incorporate	……..l.מפסק, מתג
13.inflate	……..m.חוטים
14.deflate	……..n.להוציא אוויר
15.inspect	……..o.מדחף
16.maintenance	……..p.סטייה
17.propeller	……..q.לשלב
18.switch	……..r.חומר מוליך
19.wires	……..s.מייצב אופקי

2. COMPLETE THE SENTENCES WITH THE WORDS FROM THE WORD BANK.

deflated*compressor***flight deck***propellers *** switch ***extent***ineffective**

1. We bought a new……for the broken fridge.
2. This jet has huge rotating…….
3. Some damage might have been caused to our house, but the real…….of it is still unknown.
4. There is a red ……...on the dashboard.

5. ……...is the part of an aircraft where the pilot sits and where the controls are.
6. The treatment was……., it didn't help the patient.
7. The tire in the car is……..You should fix it immediately!

3. **ANSWER THE QUESTIONS:**

1. What is the difference between anti-ice and deice systems?

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2. Define the functions of deicing equipment.

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3. Define the functions of anti-ice equipment.

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4. What are the components of the inflatable deicing boot?

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5. Describe the deicing process provided by inflatable deicing boots.

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6. How are deicing boots controlled?

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7. What was the problem with deicing boots in the past?

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8. What is the most effective method for preventing ice accumulation on an airfoil?

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9. What are the main features of *ThermaWing* system?

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10. What is the function of the holes in the weeping wings design?

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11. What liquid is used with the weeping wings system?

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12. Describe the deicing process while using the weeping wing system.

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13. What are the main types of windscreen anti-ice systems?

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14. What can be inserted into the windscreen to provide the anti-ice process?

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15. What is the main restriction for anti-ice method of heated windscreen?

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16. Which elements on some propellers can provide the anti-ice process?

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17. When can the severe propeller vibration occur?

……

18. What is the main condition for using anti-icing and deicing equipment?

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4. TICK (√) TRUE OR FALSE. CORRECT THE FALSE SENTENCES.

	True	False
1. Most light aircrafts are certified for flight in icing conditions.		
2. In order for deicing boots to work properly they should be checked after each flight.		
3. Thermal anti-ice systems should be turned on before entering icing conditions.		
4. Antifreeze solution is used in the windscreen anti ice system.		
5. The heating windscreen method should only be used before the flight.		

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