

## Correction of the Exam

### A- Read the text and answer the question.

1- Give the two main parts of the Radar?

The transmitter and the receiver

2- Why the radar cannot detect sound and visible light?

Because they are too weak to detect

3- What are the utilities of radar?

meteorological detection of precipitation, air traffic control, police detection of speeding traffic, and by the military From the text give synonyms of these words?

4- From the text give synonyms of these words?

A thing = an object, to increase = to amplified, Like = such as

5- From the text give opposites of these words?

Strong = Weak, absorbed = reflected, invisible = visible

### B- True and False Quiz

- The abbreviation of Global system for mobile communication is SIM. F (GSM)
- The sensor is a device responsive to high energy particles. F (is a device that detects and responds to some type of input from the physical environment)
- If you make water cold enough, it changes to vapor. F (it changes to ice)
- Good conductors of heat are known as insulators. F (Conductors)
- Most substances have two forms. F (have three forms)
- A **satellite constellation** is the use of one satellite to ensure a total coverage. F (Several satellites)
- LEO - low earth orbit, approx altitude: >1 000 km. F (<1 000 km)

### C- Explain the difference between the three methods by which heat is transferred?

Heat travels by radiation in space or in gases, by conduction in solid, and mainly by convention in liquids and gases.

### D- Put these words in the correct place.

- 1- Electromagnetic waves are **Invisible**
- 2- Electromagnetic waves can travel through a **Vacuum**
- 3- Electromagnetic waves travel from the sun to the earth through **Space**
- 4- A polished surface **Reflects** more rays than a dull surface.
- 5- Heat from the sun is **Transferred** by radiation.