PART I (12 marks)

❖ Fill in the gaps in the sentences according to the definitions. The first two letters are given.

1-The hearing **range** of bats is enormous; it goes from 50 to 100,000 cycles.*(from the lowest to the highest limit, extent)* [1]

2-A six-year-old, male alligator has a **length** of approximately 190 centimetres.*(longitudinal dimension)* [1]

3-Bacteria can acquire resistance to antibiotics by mutations which may **strengthen** their resistance, *(make stronger)* [1]

4-If you add two odd numbers together, you get an **even** number, *(the opposite of odd)* [1]

5-The Ebola virus produces a mortality **rate** which can be as high as 88% in human beings. *(a measure of frequency)* [1]

6-Under stress, the heart **beats** faster.*(pulsates)* [1]

7-There will be a **recurrence** of epidemics as soon as natural immunization dies out. *(they will happen again, repeated incidence)* [1]

8-Six days after fertilization, the embryo consists of a **cluster** of 100-300 cells, *(agglomeration, concentrated group)* [1]

9-The skeleton of reptiles fits the general bone **pattern** of the other vertebrates, *(schema, model)* [1]

10-Our internal body clock governs our **daily** rhythm , telling us when to wake up and when to feel sleepy.*(over a period of 24 hours, circadian rhythm)* [1]

❖ -Which are the true meanings of the following sentences:

a-He goes to the hospital for a check-up every other month;

      He goes to the hospital 12 times per year.

   ✓ He goes to the hospital every second month. [0,5]

   ✓ He goes to the hospital 6 times a year. [0,5]

b- Two out of three road accidents are caused by alcohol.

   ✓ 2/3 road accidents are caused by alcohol; [0,5]

      3/2 road accidents are caused by alcohol;

   ✓ Two in three of road accidents are caused by alcohol. [0,5]

Part II (8 marks)

1-What is the origin and the definition of the word "**Terminology**" ?

Origin: 1800-1900; medieval Latin terminus " Word, Term" + o + logy (English). [0,5]

definition:

➢ The technical words or expressions that are used in a particular subject. Example: biological terminology. [0,5]
➢ The science studying the structure, formulation, development and usage of terminologies in various subject fields. [0,5]

2-Why is Terminology so important ? give only one argument . [0,5]

- the ordering of knowledge on grounds of the relationships of concepts (general theory of science, conceptual classification for each scientific discipline)
- the transfer of knowledge, skills and technology (education, training, reading of scientific and technical texts, etc.)
- the formulation and dissemination of scientific and technical information (scientific writing and editing, publishing)
- the translation of scientific and technical texts into other languages
- the abstracting and condensing of subject information
- the storage and retrieval of scientific and technical information (indexing languages, thesauri, classification schemes).

3-How are biological terms broken down?

Biological term= prefix+ stem (root) + suffix [0,75]

Break down these terms by mentioning word elements and the origin and the meaning of each element .

	Oliguria	meaning	origin
		Producing small amounts of urine [0,25]	
prefix	**Olig** [0,25]	**Few** [0,25]	**Greek** [0,25]
suffix	**Uria** [0,25]	**Pertaining to urine** [0,25]	**Greek** [0,25]

	osteoncus	meaning	origin
		Tumor of bone [0,25]	
Stem (root)	**-Ost (-e, -eo)** [0,25]	**-bone** [0,25]	**-Greek** [0,25]
	-oncus [0,25]	**-tumor, mass** [0,25]	**-Greek** [0,25]

4-Complete the table :

Word Part (word element)	Word Part (word element) Meaning	Word element) Example	Meaning of Example
ana-	**Up** [0,25]	Anabolic	**Build up of larger molecules from smaller molecules** [0,25]
Cat- [0,25]	Down	**Catabolic** [0,25]	-Break down of big molecules into small molecules
Erythro [0,25]	Red	Erythrocyte	**Red blood cell** [0,25]
telo-	**End** [0,25]	**Telophase** [0,25]	-End of mitosis

5-Give the opposite of these terms: **catabolism ≠ anabolism** [0,25] ; **extracellular ≠ intracellular** [0,25]

Good luck