



1. Read the following text and answer the questions below:----- (20 marks)

Basically, an atom contains three types of subatomic particles: protons, electrons and neutrons. The protons and the neutrons are located in the center or the nucleus. The electrons, however, travel about the nucleus in orbits. The nucleus is the central part of the atom. It contains the protons and neutrons of an atom. Since the nucleus contains the neutrons, which are electrically neutral and protons, which have positive electrical charges, the nucleus of any atom is always positive. The number of protons in the nucleus determines how one atom of an element differs from another. Different elements are identified by atomic numbers which are the number of protons that each atom has in its nucleus.

- How many types of particles does an atom contain? (5)
- Where are the protons and neutrons located? (5)
- Why is the nucleus of any atom always positive? (5)
- What is the charge of protons? (5)

2. Complete the sentences with the right word in the brackets:----- (20 marks)

- I (write- wrote) twelve cards yesterday. 2
- This question is so (easy- difficult) I can't answer it. 2
- The weather was very bad, so we drove (slow- slowly). 2
- Have you got (some- any) ideas about the problem to do? 2
- We will meet them (at- on) night. 2
- I've decided to give (up- on) smoking. 2
- Look at the sky, it (rains- is raining) heavily. 2
- Sit (down- in) please, don't be naughty. 2
- (How much- How many) students are there? 2
- They have been living here (for- ago) seven years. 2

3. Change into negative form:----- (15 marks)

- He studied petroleum engineering. 3
- He leaves for his job very early. 3
- They can read English very well. 3
- You have to wear this uniform. 3
- We are very serious about the problem. 3

4. Change into passive form:----- (10 marks)

- The teacher asked Ahmad a question. 5
- Omar watched a film. 5

5. Choose the correct answer:----- (15 marks)

- The word "operate" is a (noun- verb). 3
- The word "commonly" is an (adjective- adverb). 3
- The noun of "relate" is (relatively- relation). 3
- The word "scientific" is a/an (verb- adjective). 3
- The adjective of "center" is (centrally- central). 3

6. Translate into Arabic:----- (20 marks)

- The nucleus is the central part of the atom. It contains the protons and neutrons of an atom. The nucleus of any atom is always positive. 10
- Chemical engineering is a branch of engineering that is concerned with the use of mechanical equipment in the chemical industry 10



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