

SECTION "B" SHORT QUESTION ANSWER (Marks: 30)

NOTE: Answer any **SIX (06)** questions from this section. All questions carry equal marks.

- Q.2 Define Energy. Write two conventional and two non-conventional sources of it.
- Q.3 Describe the role of X-rays and ultrasound in the diagnosis of disease.
- Q.4 Write a note on Pakistan Space Program.
- Q.5 Define electromagnetic waves in radio and write its functions.
- Q.6 Describe the benefits of an Artificial Space Satellite.
- Q.7 What are the misuses or disadvantages of nuclear energy?
- Q.8 What are Ultrasonic waves? Write any four uses of it.
- Q.9 Name different forms of energy.
- Q.10 Define direct current (D.C) and alternating current (A.C).
- Q.11 What is capacitor? Write its four uses.

SECTION "C" DETAILED ANSWER QUESTION (Marks: 30)

NOTE: Attempt any **THREE (03)** questions from this Section. All questions carries equal marks.

- Q.12 Draw a neat and clear labelled diagram of any two of the following:
- (i) Computer system
 - (ii) Ammeter
 - (iii) Transformer
- Q.13 Define Radio activity. Write names of radio active rays and properties of any one of it.
- Q.14 What do you know about sugar industry? Write sugar processing in detail.
- Q.15 Name input, output and storage devices. Describe any one of it.
- Q.16 Write note on any one of the following:
- (i) Potential Difference
 - (ii) E.C.G
 - (iii) Solar energy