(b) thorium (c) argon (d) radon

5. **Strontium – 94 is used as:**
(a) β Particle source (b) α Particle source (c) γ Particle source (d) Neutron source

6. **Circulation of blood can be studied by**
(a) sodium -24 (b) strontium 90 (c) carbon 14 (d) Iodine 131 Bwl-15

7. **The age of a rock can be estimated by**
(a) absorption of $\gamma - rays$ when they pass through it
(b) knowing the gravimetric composition of the compound of silicon in the rock
(c) radioactive dating
(d) knowing the elastic properties of rock

8. **Radioactive iodine can be used to check person's ..... is working properly**
(a) cancer (b) skin cancer (c) lungs (d) thyroid gland

9. **Cobalt-60 is used for treatment of**
(a) cancer (b) kidneys (c) lungs (d) thyroid Rwl-15

10. **The gamma rays radiographs are used in**
(a) Agriculture used (b) medical diagnosis (c) support industry (d) all of these

11. **Thyroid cancer is cured by**
(b) Iodine-131 (b) sodium-24 (c) Cesium-137 (d) carbon-14 Sgd-16,17, Mul-16, Shwl-16

21.14 BASIC FORCES OF NATURE

1. **Nuclear force as compared with electrostatic force is**
(a) weaker and log-range (b) weaker and short-range
(c) stronger and long-range (d) stronger and short-range

2. **Which of the following forces is responsible to keep nuclei together?**
(a) electrostatic force only (b) electrostatic and nuclear force
(c) nuclear force only (d) electrostatic and gravitational force

3. **The constituents of the nucleus are held together by**
(a) electromagnetic force (b) weak nuclear force (c) strong nuclear force (d) gravitational force

4. **Which of the following is believed to be carrier of nuclear forces?**
(a) lepton (b) meson (c) bason (d) baryon

5. **Nuclear forces arise from the continuous exchange of particles known as**
(a) mesons (b) baryons (c) positrons (d) leptons

6. **Electromagnetic and weak forces were unified by**
(a) Weinberg (b) Glashow (c) Abdus Salam (d) All of these

7. **Dr. Abdus Salam was awarded by noble prize in**
(a) 1979 (b) 1987 (c) 1969 (d) 1962

8. **The electromagnetic force is**
(a) Short range (b) long range (c) moderate range (d) no large

9. **Abd-us-Salam forwarded a theory of unification of:**
(a) electromagnetic and weak forces (b) electromagnetic and strong nuclear forces
(c) electromagnetic and gravitational forces (d) electric and magnetic forces