(d) Quartile quantities

Section-B

Note: Answer any EIGHT of the following question: Each question carries 03 marks.

Q.2 Derive the equation $S = vt + 1/2\ at^2$

Q.3 Differentiate between distrace and displacement.

Q.4 A bus is moving on a road with 15 m/s and it accelerates at 5 m/s^2. Find the final velocity of bus after 6 seconds.

Q.5 Describe Friction and write the types of friction.

Q.6 A force of 3400 N is applied on a boyd of mass is 850 k.g Find the acceleration produced by the force.

Q.7 Define couple as a pair of forces tending to produce torque.

Q.8 State Hooke's Law.

Q.9 What is energy? Name the different forms of energy.

Q.10 Convert 30oC into Kelvin and Fahrenheit scale.

Q.11 Write a note on renewable energy sources.

Q.12 Define like and unlike forces.

Section-C

(Descriptive Answer)

Note: Ansewr any TWO of the following question. Each question carries 06 marks.

Q.13 Define momentum. Explain the law of conservation fo momentum with the help of example.

Q.14 Wate and explain Newton's Law of gravitation.

Q.15 Write notes on any TWO of the following:

(a) State of equilibrium

(b) Newton's Third Law of motion.

(c) Mass fo Earth.