Answer the following questions: 1. (a) Give two enamples of artificial satellites. (b) what is the ight value.

(c) write 5.I unit of energy.

(d) write 5.7 unit of temperature.

2. Define heat and temperature.

3. Define kinetic energy and write its formula. 4. Convert 4°C intolokelvin scale.

5. Write different types of energy.

6. (a) state and explain Newton's law of gravitation
(b) State and explain kepler's 1st of 2nd law of planetry

T. (a) State and emplain the principle of solar thermal consersion (or)

8. (a) Dérive doient gous Equation (PUENRT)

(b) Define Noise pollution. Emploin the sources of Moise rapollution. I was start soll sollies has state

eriet note on polar untellites (Pasul) Extinc Limite courty Errive its expression. taplain the principle of bolless

Sub & code: 103 - Engineering physics Marks Duration: PART-A 10 x 3 = 30M Answer the following questions: 1. Define fundamental physical quantity and derived physical quantity 2. Define accuracy and least count. 3. Define the terms: (1) Unit vector (11) Mull vector 4. Define concurrent and coplanar forces. 5. what is the g value on earth, mention with its 5.I unit. 6. Define work done and energy. Mention their 5.3 units. 7. write any 6 types of energy. 8. Define Heat and temperature. 9. State the relation between degree celsius, kelvin and farhenheit temperatures. co. Write any three differences between musical sound and Moise. Part-B 5 x10 = 50M 11. (D) Write the expression for magnitude and direction of a resultant vector of the parallelogram law of two vectors. 12. (b) State parallelogram law of forces. Illustrate the parallelogram law in the case of a flying bird. 13- (a) State and explain the Newton's law of Gravitation. (or)

14 (b) Write a brief note on Polar sate-llites (PSLV).

15.(a) Define kinetic energy. Derive its expression

16. (b) Explain the principle of solar thermal conversion.

17. Derive Ideal gas Equation PV= nRT.

18. Explain the sources of Noise pollution.

SET- 2