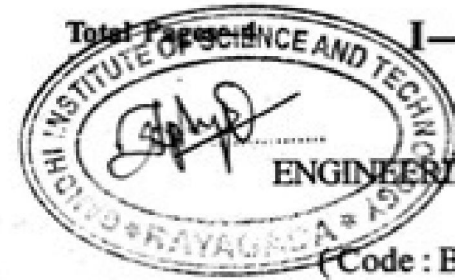


(4)

- (c) Establish the formula for Force (F) acting on a current carrying conductor placed in a uniform magnetic field. Under what condition is the force maximum? 5 + 2
8. (a) Draw the Vector Diagram of Fleming's Right Hand Rule. 2
- (b) What is a laser beam? Explain the principle of LASER. 5
- (c) State and explain Faraday's laws of Electro-magnetic Induction. 7



I—Sem/COMMON/2014
(Instant) (New)

ENGINEERING PHYSICS

(Code : BST—101)

Full Marks : 70

Time : 3 hours

Answer any five questions

Figures in the right-hand margin indicate marks

1. (a) Write down the SI units of : 2
- (i) Acceleration due to gravity
- (ii) Thermal conductivity.
- (b) O_2 forces equal in magnitude have magnitude of Resultant equal to either. Calculate the angle between the forces. 5
- (c) Define "Critical Angle". Explain the phenomena of Total Internal Reflection. 2 + 5