No. of Printed Pages : 8
Roll No. 180013

1st Year / Common

Subject : Applied Physics

Time : 3 Hrs. M.M. : 60

SECTION-A

Note: Objectives questions. All questions are compulsory (10x1=10)

(Course Outcome/CO)

Q.1 Give the full form of LASER. (CO-13)

Q.2 Pure semi conductors are called _____ semi conductors. (CO-12)

Q.3 What are the units of electric power. (CO-10)

Q.4 Give formula for total resistances. When they are connected in series. (CO-10)

Q.5 The instruments used to see very small objects is called _____ (CO-8)

Q.6 Give the full from of SHM. (CO-7)

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Q.7 The unit of charge is _____ (CO-9)

Q.8 Give two uses of telescope. (CO-8)

Q.9 The formula for ohms law is _____ (CO-10)

Q.10 Lens formula is given by _____ (CO-8)

SECTION-B

Note: Very Short answer type questions. Attempt any five questions out of seven. 2x5=10

Q.11 Give two properties of heat radiations. (CO-6)

Q.12 Define Time Period and Frequency. (CO-7)

Q.13 Define Total Internal Reflection (CO-8)

Q.14 Define Capacitance. Give its units (CO-9)

Q.15 Define alternating current and Direct Curren (CO-10)

Q.16 Define Rectifier (CO-12)

Q.17 Define Nano material. Give one example (CO-13)

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SECTION-C

Note: Short answer type questions. Attempt any six questions out of eight questions. 6x4=24

Q.18 Define Heat and temperature on the basis of kinetic theory (CO-6)

Q.19 What are the four methods to control Reverberation time. (CO-7)

Q.20 Define Reflection. What are the two laws of reflection. (CO-8)

Q.21 Define Electric lines of force. Write any four properties of electric lines of force. (CO-9)

Q.22 Calculate the total resistance when the resistances are connected in series. (CO-10)

Q.23 Define Diamagnetic, Paramagnetic and Ferromagnetic materials. Give one examples of each. (CO-11)

Q.24 Explain conductors and insulators on the basis of kinetic theory. (CO-12)

Q.25 Define optical fiber. Give four applications. (CO-13)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. 2x8=16

Q.26 Calculate total capacitance when capacitors are connected in

(i) Series (ii) Parallel (CO-9)

Q.27 Explain conduction, convection and radiation with diagrams and two examples of each. (CO-6)

Q.28 Define Rectifier. Explain full wave rectifier (CO-12)

(Note: Course outcome/CO is for office use only)