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5th Sem / ECE, ECE(For Speech and Hearing Impaired)

Subject : Optical Fibre Communication

Time : 3 Hrs. M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 The wavelength range for the fourth window is _____ (CO1)

a) 1550 nm b) 1625 nm

c) 1750 nm d) 1580 nm

Q.2 The optical light detector is a part of (CO4)

a) Transmitter Section b) Reciever Section

c) None

Q.3 Which parameter shows a temporary joint between optical fibers? (CO2)

a) Connectors b) Splice

c) Couplers d) None

Q.4 A LED is a (CO3)

a) Coherent source of light

b) Non coherent source of light

c) None

Q.5 On the basis of mode of wave propagation, the optical fibres are divided into (CO2)

a) Two b) Four

c) Three d) None

Q.6 SOA is : (CO5)

a) Semiconductor optical amplifier

b) Sand optical amplifier

c) similar optical amplifier

d) semiconductor optical application

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 The refractive index of core is_____ than that of cladding. (CO1)

Q.8 Multi Mode fiber does not suffers intermodal dispersion. (True/False) (CO2)

Q.9 EDFA posses_____Ion. (CO5)

Q.10 Attenuation is the loss of_____ as light travels along the fiber. (CO2)

Q.11 LED stands for_____. (CO3)

Q.12 PIN stands for_____. (CO4)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 What do you mean by optical light detector. (CO4)

Q.14 Explain in brief the Multi Mode graded index fiber. (CO2)

Q.15 Explain in brief the application of Optical Fibre Communication. (CO1)

Q.16 Explain spontaneous emission. (CO3)

Q.17 Explain the block diagram of Optical Fibre Communication. (CO1)

Q.18 Define optical Connectors. (CO2)

Q.19 Write a short note on Surface Emitting LED. (CO3)

Q.20 Explain APD. (CO4)

Q.21 Explain in brief the types of bending losses. (CO2)

Q.22 Explain the basic principle of EDFA. (CO5)

SECTION-D

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

Q.23 Write in detail about the mechanical splicing method. Why glue is used in mechanical splicing. (CO2)

Q.24 Describe different types of Optical amplifiers. (CO5)

Q.25 Explain in detail about the distributed feedback laser & also explain the laser characteristics. (CO3)