

Department of Electronics and Communication Engineering

EC8008 PHOTONIC NETWORKS

Multiple Choice Questions Bank

UNIT-V: NETWORK DESIGN AND MANAGEMENT

1.	must be operated in stimulated emission region. a) Injection laser b) LED's c) Detector
	d) Receiver Answer:(a)
2.	Extinction ratio is denoted by symbol a) ε b) σ c) β d) ρ Answer:(a)
3.	The use of low impedance driving circuit may increase
4.	The finite spectral width of the optical source causes a) Depletion b) Frequency burst c) Pulse broadening d) Efficient reflection
	Answer:(c)

5.	In an optical fiber communication system, which among the following is not a typical transmitter function?
	a. Coding for error protection
	b. Decoding of input data
	c. Electrical to optical conversion
	d. Recoding to match output standard
	Answer:(d)
6.	Which among the following is provided by an optical receiver for the regeneration of data signal with minimum error? a. Photo-diode b. Signal Processing Circuits c. Linear Circuitry d. None of the above
	Answer:(c)
7.	a) Noise b) Depletion layer c) Avalanche d) Current
	Answer:(a)
8.	A performs the linear conversion of the received optical signal into an electric current. a) Receiver b) Converter c) Detector d) Reflector
	Answer:(c)
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9.	are provided to reduce distortion and to provide a suitable signal shape for the filter.
	a) Detector b) Fauslizor
	b) Equalizer c) Filters
	d) Amplifier
	<i>v) : ::::</i>

Answer:(b)

10.	A maximizes the received signal-to-noise ratio in the receiver circuitry. a) Filter b) Equalizer c) Detector d) Reflector Answer:(a)	
11.	a) Attenuation b) Transmission c) Equipment d) Fiber length	receiver.
	Answer:(a)	
12.	a) Repetitive repeater b) Regenerator c) Attenuator d) Gyrator Answer:(b)	
13.	In the optical channel bandwidth is divided into non-overlapping frequence a) Time division multiplexing b) Frequency division multiplexing c) Code division multiplexing d) De-multiplexing Answer:(b)	y bands.
14.	 Which of the following is not an optical fiber component? a) Fiber b) Connector c) Circulator d) Detector Answer:(c) 	

15.	For linear as well as in nonlinear mode are most important network elements. a) Optical amplifier b) Optical detector c) A/D converter d) D/A converters
	Answer:(a)
16.	The more advantages optical amplifier is a) Fiber amplifier b) Semiconductor amplifier c) Repeaters d) Mode hooping amplifier Answer:(b)
	Allswer .(b)
17.	is used preferably for channel selection in a WDM system. a) Semiconductor optical amplifier b) Erbium-doped fiber amplifier c) Raman fiber amplifier d) Brillouin fiber amplifier
	Answer:(b)
18.	For used in single-mode fiber are used preferably. a) Semiconductor optical amplifier b) Erbium-doped fiber amplifier c) Raman fiber amplifier d) Brillouin fiber amplifier
	Answer:(a)
19.	Mostly are used in nonlinear applications. a) Semiconductor optical amplifier b) Erbium-doped fiber amplifier c) Raman fiber amplifier d) FPAs
	Answer:(c)
20.	A is a network connecting several regional or national networks together. a) Long-haul network b) Domain network c) Short-haul network d) Erbium network
	Answer:(a)

21.	Optical MAN'S are usually structured in topologies. a) Ring b) Bus c) Mesh d) Star
	Answer:(a)
22.	Performance management is closely related to a) Proactive Fault Management b) Fault management c) Reactive Fault Management d) Preventive Fault Management
	Answer:(b)
23.	In Network Management System, the term that is responsible for controlling access to network based on predefined policy is called
24.	Control of users' access to network resources through charges is the main responsibility of a) Reactive Fault Management b) Reconfigured Fault Management c) Accounting Management d) Security Management
	Answer:(c)
25.	 A network management system can be divided into a) Three categories b) Five broad categories c) Seven broad categories d) Ten broad categories Answer:(b)
	Table 11 to 1 (N)