

## **Department of Electronics and Communication Engineering**

## **EC8008 PHOTONIC NETWORKS**

## **Multiple Choice Questions Bank**

## **UNIT-III: WAVELENGTH ROUTING NETWORKS**

1. Individual wavelength channels and wavebands are terminated through layer
a) WXC and PXC
b) WXC and FXC
c) BXC and FXC
d) WXC and BXC
Answer: (d)
2. The routing and wavelength assignment problem addresses the core issue of
a) Traffic patterns in a network
b) Wavelength adjustment
c) Wavelength continuity constraint
d) Design problem
Answer: (c)
3. How many techniques of implementation are there for routing wavelength assignment (RWA)?
a) Two
b) Six
c) Three
d) Four
Answer: (a)
<b>4.</b> deals with establishing the light path in frequently varying traffic patterns.
a) Wavelength routing
b) Wavelength multiplexing
c) Static RWA
d) Dynamic RWA
Answer: (d)

5. Static RWA probable Routing problem b) Virtual topology c) Static wavelength d) Light path proble Answer: (b)	y <b>problem</b> n problem
6. Theactive light paths. a) Network state	_ provides information about the physical path and wavelength assignment for all
b) RWA	
c) LAN topology	
d) Secluded commu	nication protocol
Answer: (a)	
a) CGA algorithm b) Semi-pristine env c) RWA algorithm d) Pass key protoco Answer: (c)	
9 is a a) Hop b) Optical node c) Wavelength d) Optical attenuation Answer: (b)	on
10. The network str a) Network b) Struck c) Topology d) D-pattern	ucture formed due to the interconnectivity patterns is known as a

<ul><li>11. The ring and star top</li><li>a) Mesh</li><li>b) Fringe</li><li>c) Data</li><li>d) Singular</li><li>Answer: (a)</li></ul>	ologies are combined in a	configuration.
<ul> <li>12. Packet switching is a</li> <li>a) Frame switching</li> <li>b) Cell switching</li> <li>c) Trans-switching</li> <li>d) Buffer switching</li> <li>Answer: (b)</li> </ul>	ilso called as	
<ul> <li>13. The optical networki</li> <li>a) Dependent</li> <li>b) Independent</li> <li>c) Similar</li> <li>d) Dissimilar</li> <li>Answer: (b)</li> </ul>	ng fundamentals are	of the transmission techniques.
14. A dig to evolve in the optical f a) Asynchronous b) Dedicated c) Seismic d) Synchronous Answer: (d)		nable the international communications network
15. Wavelength Division a) FDM b) PDM c) DWDM d) None Answer: (a)	n Multiplexing is same as	
16. WDM is a Analog M a) Magnetic Signal b) Electromagnetic sign c) Optical Signal Answer: (c)	Iultiplexing Technique to combinal	ne

17. A signal carried on a dedicated wavelength from source to destination node is known as a

- a) Light path
- b) Light wave
- c) Light node
- d) Light source

Answer: (a)

- **18.** Architectural styles is composed of which of the following?
- a) A set of component types that perform some function at run-time
- b) A topological layout of these components indicating their run-time inter relationships
- c) A set of semantic constraints
- d) All of the mentioned

Answer: (c)

- 19. Which architectural style goal is to achieve Modifiability with Scalability?
- a) Data Flow Architecture
- b) Call and Return Architecture
- c) Virtual Machine Architecture
- d) None of the mentioned

Answer: (b)

- **20.** Which architectural style goal is to achieve Modifiability with Reuse?
- a) Data Flow Architecture
- b) Call and Return Architecture
- c) Virtual Machine Architecture
- d) None of the mentioned

Answer: (a)

- 21. Which architectural style goal is to achieve Portability?
- a) Data Flow Architecture
- b) Call and Return Architecture
- c) Virtual Machine Architecture
- d) None of the mentioned

Answer: (c)

- **22.** Which architectural style goal is to achieve Integrability?
- a) Data Flow Architecture
- b) Call and Return Architecture
- c) Data Centered Architectures
- d) None of the mentioned

Answer: (c)

23. Which of the following are types of Call and return architecture?
a) Main program and subroutine Architecture
b) Remote Procedure Call system
c) Object Oriented or abstract data type system
d) All of the mentioned
Answer: (d)
24. Electrical devices in optical network are basically used for
a) Signal degradation
b) Node transfer
c) Signal control
d) Amplification
Answer: (c)
Allower. (c)
26 is a packetized multiplexing and switching technique which combines the benefits
of circuit and packet switching.
a) Synchronous mode
b) Asynchronous transfer mode
c) Circuit packet
d) Homogeneous mode
Answer: (b)
27. The is a network layer that contains both addressing and control information to enable
packets to be routed within a network.
a) TCP
b) Internet protocol (IP)
c) UDP
d) SONET/SDH protocol
Answer: (b)
<b>28.</b> The mapping of IP frames in SDH/SONET is accomplished in stages.
a) Four
b) Two
c) Three
d) One
Answer: (c)