Dashboard /	My courses	/ BECE308L	WINS23-24 /	Dr. Brintha	Therese- C	<u> </u>	Digital Quiz-C1slot	

	Time left 0:05:49
Question 1	
Not yet answered	
Marked out of 1.00	
Zero dispersion wavelength in optical fiber is	
○ a. 1630nm	
○ b. 870nm	
© c. 1310nm	
Od. 1550nm	
Clear my choice	•
Question 2	
Not yet answered	
Marked out of 1.00	
a. Absorption of light pulsesb. Broadening of transmitted light pulses along the channel	
 b. Broadening of transmitted light pulses along the channel 	
b. Broadening of transmitted light pulses along the channelc. Overlapping of light pulses on compression	
 b. Broadening of transmitted light pulses along the channel c. Overlapping of light pulses on compression d. Compression of light pulses Clear my choice 	
 b. Broadening of transmitted light pulses along the channel c. Overlapping of light pulses on compression d. Compression of light pulses Clear my choice 	
 b. Broadening of transmitted light pulses along the channel c. Overlapping of light pulses on compression d. Compression of light pulses 	
 b. Broadening of transmitted light pulses along the channel c. Overlapping of light pulses on compression d. Compression of light pulses Clear my choice Question 3 Not yet answered Marked out of 1.00	
 b. Broadening of transmitted light pulses along the channel c. Overlapping of light pulses on compression d. Compression of light pulses Clear my choice Question 3 Not yet answered Marked out of 1.00 In order for neighbouring signal pulses to distinguishable at the receiver, the pulse spread should be	
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lot yet answered		
Marked out of 1.00		
Spectral width of the C band used in op	otical fiber communications	
○ a. 1260nm to 1360 nm		
O b. 1560nm to 1625nm		ı
○ c. 1625nm to 1675 nm		ı
d. 1530nm to 1565 nm		
Clear my choice		•
Question 5		
Not yet answered		
Marked out of 1.00		
	time for the double hetro junction InGaAsP LED emitting peak wavelength of 1310 nm has	
radiative and non radiative recomibinat O a. 18.36ns		
radiative and non radiative recomibinat ○ a. 18.36ns ○ b. 19.36ns		
radiative and non radiative recomibinat o a. 18.36ns b. 19.36ns c. 16.36 ns		
radiative and non radiative recomibinat ○ a. 18.36ns ○ b. 19.36ns		
 a. 18.36ns b. 19.36ns c. 16.36 ns 		

In order for neighbouring signal pulses to distinguishable at the receiver, the pulse spread should be			
a. greater than bit period			
b. less than a bit period			
c. less than the reciprocal of the bit period			
d. greater than the reciprocal of the bit period			
The pulse spread should be less than the bit period to ensure that neighboring signal pulses are distinguishable at the receiver. This prevents overlap between consecutive pulses, allowing for accurate detection and interpretation of the transmitted data.			
So, the correct answer is:			
b. less than bit period			
7) noise inversely proportional to load resistor			
a. Dark current			
b. None of the above			
c. Shot			
d. Thermal			
The noise inversely proportional to the load resistor is thermal noise.			
So, the correct answer is:			
d. Thermal			
8) Optical amplifier which uses external current injection pumping is called			

a.

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none of the above
b.
Semi-conductor optical amplifier
c.
Raman amplifier
d.
Erbium-doped fiber amplifier
The optical amplifier that uses external current injection pumping is called a semiconductor optical
amplifier (SOA).
So, the correct answer is:
b. Semiconductor optical amplifier
9)
Find the acceptance angle, if the numerical aperture of the multimode silica fiber is 0.242.
14 degrees
b.
10 degrees
28 degrees
32 degrees
The acceptance angle (
\theta) of a multimode fiber can be calculated using the formula:
θ
arcsin
f()
Ν
Α
\theta=arcsin(NA)
```

where NA is the numerical aperture.

```
\theta
=
arcsin
f()
0.242
\theta=arcsin(0.242)
\theta
≈
14
degrees
θ≈14 degrees
So, the correct answer is:
a. 14 degrees
9)
The unit express power level P as a logarithmic ratio of P referred to 1mW is
a.
dΒ
b.
uW
c.
mW
d.
dBm
The unit expressing power level
P as a logarithmic ratio of
P referred to 1mW is dBm.
So, the correct answer is:
d. dBm
```

10)

Given NA = 0.242, we can calculate the acceptance angle:

statement is	
a.	
false	
b.	
true	
The statement is true. M	lost materials exhibit different electron ionization rates and hole ionization

Most material exhibit different electron ionization rates and hole ionization rates . the given