RTDC	T7	PRIJERA	EXTERNA	202
KIDC	_ / _	FROLDA	LAILINIA	_202

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Parte	1	de	1-(10.0 / 10.0 Puntos

Falso

Preguntas 1 de 7 1.5 1.5 Puntos	
In Microwave Photonics systems (select all the correct answers):	
A. The carrier suppression effect can be avoided if we use double sideband modulation B. External modulation implies lower insertion losses than direct modulation	on
C. The noise figure is defined as the ratio of the signal-to-noise ratio at the input to t	ne signal-to-noise ratio at the output
D. Singe sideband modulation is possible if we employ external modulation where w	e apply a phase shift of 90° between the electrodes of the dual-drive modulator
Preguntas 2 de 7 1.5	
1.5 Puntos	
In microwave signal filtering (select the correct answer):	
A. In the context of incoherent filtering operation, the free spectral range (FSR) can	
B. RF signal filtering under self-beating operation requires the extraction of the opti	
C. In the context of incoherent filtering operation, the selectivity of the RF filter dec	reases by increasing the number of samples or taps N
O. All the answers are false	
Preguntas 3 de 7 1.5	
1.5 Puntos	
Select the correct statement regarding fiber-wireless access networks: A. Cloud Radio Access Networks cannot provide native support to collaborative mu	tipoint (CoMP) radio technologies between different cells.
B. The use of the CPRI standard on digital radio over fiber (DRoF) implies higher bit	
C. Software-defined networking in a DRoF access network allows the dynamic map	
D. A MCF implementing a link between the central office and the base station cannot	
Preguntas 4 de 7 1.5	
1.5 Puntos	
Pulse para ver instrucciones adicionales	
Consider a MWP link implemented with standard singlemode fiber (chromatic dispersion	on D = 17 ps/(km.nm)), employing double-sideband modulation at an opearting optical wavelength of 1550 nm. The maximum link length possible to avoid the carrier suppression effect in
radiofrequency range up to 20 GHz is 9.18 km. Note: indicate 2 decimal places.	
Preguntas 5 de 7 1.5 1.5 Puntos	
1.5 runtos	
In a cloud/centralized radio access networks using radio-over-fiber transmission:	
A. The processing resources at the central office cannot be shared with several base	transceiver stations.
 B. Since the RF frontend is shifted to the central office, RF signals are generated at t 	ne BBU and transmitted to the radiating elements through a fiber-optic fronthaul.
C. The optoelectronic and electrooptic devices cannot be placed at the Remote Radi	o Head (RRH)
D. Each Base Station is costly to build and operate as it needs a considerable number	of autonomous equipment, including its own cooling and backup battery.
Preguntas 6 de 7 1.5	
1.5 Puntos	
Intermediate frequency over fiber as compared to radio over fiber (select all correct res	ponses):
A. allows a base station configuration with more flexibility to network upgrades in to B. always results in more immunity to fiber chromatic dispersion effects.	rms of wireless frequencies.
C. transmits through the fiber network a radiofrequency signal at a lower frequency	
D. can be implemented with optoelectronic devices with a lower RF bandwidth requ	irement.
Preguntas 7 de 7 10	
Preguntas 7 de 7 1.0 1.0 Puntos	
In integrated microwave photonics circuits, silicon nitride is the technological plataform	that allows lower insertion losses.
Verdadero	