No. of Printed Pages: 4

BIEL-033

DIPLOMA - VIEP - ELECTRONICS AND COMMUNICATION ENGINEERING (DECVI)

Term-End Examination

00396 December, 2014

BIEL-033: BASIC TELEMATICS

Time: 2 hours Maximum Marks: 70

Note: Attempt any five questions in all. Question no. 1 is compulsory. All questions carry equal marks.

1. Choose the correct answer:

 $7 \times 2 = 14$

- (a) ISDN is
 - (i) Integrated Services Digital Network
 - (ii) Interconnection Services Digital Network
 - (iii) Intelligent Services Digital Network
 - (iv) Integrated Services Direct Network
- (b) The second generation cordless phones are called
 - (i) CT₂
 - (ii) CT₁
 - (iii) CT₄
 - (iv) CT₀

(c)	The	frequency of the ringing tone is
	(i)	134 Hz or 400 Hz
	(ii)	135 Hz or 400 Hz
	(iii)	133 Hz or 410 Hz
	(iv)	133 Hz or 400 Hz
(d)	Num	nber unobtainable tone is a continuous Hz signal.
	(i)	402
	(ii)	404
	(iii)	300
	(iv)	400
(e)	to j	Switching Network may be designed provide N/2 simultaneous switching as. In this case the network is said to be
	(i)	blocking
	(ii)	partial blocked
	(iii)	no blocking
	(iv)	None of the above

	(f)	TDM is	
		(i) Time Duration Multiplexing	
		(ii) Time Division Multiplexing	
		(iii) Time Direct Multiplexing	
		(iv) Time Division Multiplication	
	(g)	Amplitude, frequency and are	
		used in the design of modem.	
		(i) Phase modulation	
		(ii) PCM	
		(iii) TDM	
		(iv) OOK	
2.	-	ain the various types of tones used in hone exchanges.	14
3.	(a)	Explain the different types of switching systems.	7
	(b)	Explain Switching Hierarchy routing with the help of its block diagram.	7
4.	(a)	What are the applications of Telecommunication? Discuss the Business application of telecommunication.	7
	(b)	Explain the working principle of ATM machine with the help of its block diagram.	7
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5.	(a)	Define Video-conferencing.	7				
	(b)	Explain the services provided by ISDN.	7				
6.	-	lain the working of various types of telephone ruments with the help of its block diagram. 14					
7.	(a)	Define Digital TDM/PCM switch.	7				
	(b)	Explain CMOS cross point switch.	7				
8.	Write follow (a) (b) (c) (d) (e) (f)	e short notes on any four of the wing: $4\times 3\frac{1}{2}=$ Telephone Receiver Elements of Switching System Telephone Network Digital Data Service Telemedicine Message format for ISDN	:14				