Alok. Kumar

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST-1 EXAMINATION- February -2020

B. Tech. VIII Semester (ECE)		
COURSE CODE: 14B1WEC733	MAX. MARI	KS: 15
COURSE NAME: Cognitive Radio Network		
COURSE CREDITS: 03	MAX. TIME:	1 HRS
Note: All questions are compulsory. Carrying of mobile phone during examinations	will be treated	as
case of unfair means.		
Q.1 (a) Discuss the various attributes, which must be employed in future genetworks.		reless
is a	[CO1]	[3]
(b) Explain Hidden Node Problem in wireless communication system.	[CO1]	[2]
Q.2 (a) What are the limitations of layered protocol stack structure in com-	munication sy	stem?
How these limitations can be overcome in cognitive radio communications		
	[CO2]	[3]
(b) What is the frequency range of ISM Band-1 and ISM Band-2? Also w	rite down the	
usage of these bands.	[CO2]	[2]
Q.3 (a) How Software Defined Radio (SDR) is employed in next generation	of communic	ation
system? What are the limitations of SDR? How it is different from C	ognitive Radic	?
	[CO2]	[3]
(b) Write short note on Interference Temperature Model.	[CO2]	[2]