Dr. Ruchi

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -1 EXAMINATION- August 2019

B.Tech/ VIIth Semester

COURSE CODE: 18B1WCI732	MAX. MARKS: 15
COURSE NAME: Social and Information Network Analysis	
COURSE CREDITS: 02	MAX. TIME: 1hr
Note: All questions are compulsory. Carrying of mobile phone during	examinations will b
treated as case of unfair means.	
1. Define the various network models based on the degree of distribution at	ad list all their
features.	(2)
2. Explain the following in detail:	(3)
I. Handshaking Lemma	
II. Havel Hakimi Algorithm	
3. Explain the various metrics of Social Network Analysis	. (2)
4. Which of the following cannot be a degree sequence of a graph? Explain	with reason. (4)
(i) 7,6,5,4,4,3,2,1	
(ii) 6,6,6,6,3,3,2,2	
(iii) 7,6,6,4,4,3,2,2	
(iv) 8,7,7,6,4,2,1,1	
4. (i) Give an example of a graph which is (i) Euler and Hamiltonian (ii) not Hamiltonian (iii) Hamiltonian and not Euler.	Euler and (2)
5. What do you mean by a Bipartite Graph? Explain with an example.	(2)