## JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -1 EXAMINATIONS-2024

## B.Tech-VI Semester (Civil)

COURSE CODE (CREDITS): 18B1WCE634	MAX. MARK	(S: 15
COURSE NAME: Transportation Engineering		
©OURSE INSTRUCTORS: Dr. Amardeep	MAX. TIME:	l Hours
Note: All questions are compulsory. Marks are indicated against each que	estion in square	
livackets.		, ,
(1. Discuss in details about the different types of sleepers and bapplication?	llast along wit	th their
(2. Differentiate between different types of rails along with their merits at		(3)
Q3. Calculate the number of sleepers required in constructing a Broad (	Gauge railway t	rack of
longth 650 m.		(3)
04. What is the importance of transition curve in railway system? Please of	liscuss in detail.	(2)
(5. Which of the following occurs when train travels at a speed greater	than equilibrium	ı speed
a) Cant deficiency	·	(1)
b) Cant excess		
c) Cant gradient		
d) Rate gradient		
Q6. A curve of 600 m radius on a BG section has a limited transition of	40 m length. Ca	lculate
the maximum permissible speed and superelevation for the same. The maximum	ximum sectional	l speed
(MSS) is 100 km/h.		(4)