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## Internal Assessment Test 1 – Sept. 2019

Sub:	Railways, Harbours, Tunnels and Airports					Sub Code:	15CV552	Branch:	CIVIL	
Date:	08/09/19	Duration:	90 mins	Max Marks:	50	Sem/Sec:	V-A/B		OBE	
Question 1 is compulsory, attempt any 4 from questions 2-6.								MARKS	CO	RBT
1 (a)	Draw and Explain a right hand turn-out.						[10]	CO1	L1	
2	During the scheduled maintenance it was noticed by the gang-men that the rail has moved around 8.5 cms in the direction of movement of the trains.									
	(a) What is the possible reason for this movement?						[01]			
	(b) What might be the theory behind this problem? Explain any 1.						[04]	CO1	L3	
	(c) Can you suggest any 3 good solutions for this problem?						[01+02+02]			
3. (a)	What are the three spheres of sustainability?						[05]	CO2	L2	
	(b) How can sustainability in transport systems be achieved? Explain with an example.						[05]			

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	(b) How can sustainability in transport systems be achieved? Explain with an example.						[05]			

4. (a)	Write any 4 functions of rail.	[4]	CO3	L3
(b)	Write any 4 requirements of an ideal rail.			
5. (a)	Draw and explain about coning of wheels.	[5]	CO3	L1
(b)	Derive a relationship between Radius of a railway curve and the Degree of a railway curve.	[05]	CO2	L3
6. (a)	Compare bull headed and flat footed rails.	[05]	CO1	L1
(b)	What do you mean by preliminary surveying and Detailed surveying. Explain.	[05]		

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