9.	(a)	Discuss	the	advantages	and	disadvantages	of
	tunnelling over open cuts.						

(b) Explain different methods of providing ventilation to the tunnels. Also comment on position of lightings.

Write short notes on any (THREE):-14

- Three Controls in Aircraft.
- Exit Taxiways.
- (iii) Airtraffic Control.
- (iv) Tunnel linings.
- Permanent Drainage in Tunnel.

Faculty of Engineering & Technology

Eighth Semester B.E. (Civil)/Eighth Semester B.E. P.T. (Civil) Examination

TRANSPORTATION ENGINEERING—II

Sections-A & B

Time: Three Hours]

http://www.rtmnuonline.com

[Maximum Marks: 80

INSTRUCTIONS TO CANDIDATES

- Answer THREE questions from Section-A and THREE questions from Section-B.
- Assume suitable data wherever necessary.
- Illustrate your answers wherever necessary with the help of neat sketches.
- Use of non-programmable calculator and Drawing instruments is permitted.

SECTION-A

- Explain the various resistances which a train has to overcome before starting or to keep its motion. 6
 - What will be the gradient for a B.G. track when a grade resistance together with curve resistance due to 3° shall be equal to the resistance due to ruling gradient of 1 in 200?

MNO-39495 1650

MNO-39495

(Contd.)

http://www.rtmnuonline.com

http://www.rtmnuonline.com

Tongue Rail.

http://www.rtmnuonline.com

http://www.rtmnuonline.com

- Splice rail and point rail.
- Flangeway clearance.

http://www.rtmnuonline.com

	B
	non
5	ine.
σ	com
7	

5.	(a)	Enlist various characteristics of an aircraft. Menti	on			
		clearly that which parameters, concerned with t	he			
		airfield, are decided based on which characteristic	cs			
		and how.	6			
	(b)	In a proposal of upgrading an existing runway field				
		of a city airport, following data is obtained:				

Site Elevation — 418 m.

Basic Runway Length — 2600 m.

(iii) Airport Reference Temperature = 32°C.

Compute the actual runway length required. The topographical condition is such that no effective gradient is required.

- Discuss the orientation of runway with the help of Wind-Rose Diagram. Comment on Calm Period.
 - What do you understand by the term 'Imaginary Surfaces' ? Explain each surface in detail.
- 8. (a) Discuss various aircraft parking configurations
 - Explain the working of Instrumental Landing System (ILS).

MNO-39495

3

(Contd.)