www.FirstRanker.com

Code No: R1631015

**R16** 

**SET** - 1

# III B. Tech I Semester Regular Examinations, October/November - 2018 TRANSPORTATION ENGINEERING – II

(Civil Engineering)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (Part-A and Part-B)

2. Answer ALL the question in Part-A

3. Answer any **FOUR** Questions from **Part-B** 

### PART -A

1.	a)	What are components of Permanent Way?	[2M]
	b)	How various Gauges are different from each other?	[2M]
	c) d)	What are various surveys that are conducted for railway alignment?  Draw a general layout of Airport Layout	[2M] [3M]
	e) f)	What are various design factors of Runway? How ports are classified?	[3M] [2M]
		PART -B	
2.	a) b)	What are the functions of Rails and Sleepers? Write about Creep theory of Rails.	[7M] [7M]
3.	a)	What are factors to be considered for selection of Railway Alignment?	[7M]
	b)	Write about Vertical Curves of Railway Network.	[7M]
4.	a)	What is the purpose of Turnout? Give various types with neat diagram.	[7M]
	b)	What are the objectives of Signaling in Railways?	[7M]
5.	a)	Ministry of Civil Aviation is planning an International Airport at one City. How various factors affect site selection of Airport?	[7M]
	b)	AAI is redesigning lighting system at an existing Airport. Discuss about standards of Airport lighting.	[7M]
6.	a)	Discuss about design methods of flexible pavements of Runway.	[7M]
	b)	Write about maintenance of Airfield Pavement.	[7M]
7.	a)	Government is planning a Good Port at one Sea Shore. What are the requirements of good Port explain it to Port In-charge?	[7M]
	b)	Compare Dry and Wet Dock.	[7M]

\*\*\*\*\*

Code No: R1631015

**R16** 

SET - 2

## III B. Tech I Semester Regular Examinations, October/November - 2018 TRANSPORTATION ENGINEERING – II

(Civil Engineering)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (Part-A and Part-B)

2. Answer ALL the question in Part-A

3. Answer any **FOUR** Questions from **Part-B** 

### PART -A

a)	What is Permanent Way?	[2M]
b)	List various Gauges of Railway Track.	[2M]
c)	What are various alignments of Railway Track?	[2M]
d)	What is Wind rose diagram?	[3M]
e)	What are different methods of flexible pavement of Runway?	[3M]
f)	Differentiate between Dry and Wet Dock.	[2M]
	<u>PART -B</u>	
a)	What are the requirements and functions of Ballast?	[7M]
b)	Explain about Rail Joints.	[7M]
a)	What are various Gradients in Railways? Explain Grade Compensation.	[7M]
b)	Explain widening of Gauge at Curves.	[7M]
a)	Write about various components of Turnout.	[7M]
b)	Discuss about classification of Signaling in Railways.	[7M]
a)	Write about characteristics of Aircraft.	[7M]
b)	What are the corrections to be adopted for Runway length? Discuss.	[7M]
a)	Explain about design factors of Runway Pavement.	[7M]
b)	How drainage is designed for Runway?	[7M]
a)	What are the uses of Transition Shed in Port?	[7M]
b)	Write about Break waters.	[7M]
	b) c) d) e) f) a) b) a) b) a) b) a) b) a) b)	b) List various Gauges of Railway Track. c) What are various alignments of Railway Track? d) What is Wind rose diagram? e) What are different methods of flexible pavement of Runway? f) Differentiate between Dry and Wet Dock.  PART -B  a) What are the requirements and functions of Ballast? Explain about Rail Joints. a) What are various Gradients in Railways? Explain Grade Compensation. b) Explain widening of Gauge at Curves. a) Write about various components of Turnout. b) Discuss about classification of Signaling in Railways. a) Write about characteristics of Aircraft. b) What are the corrections to be adopted for Runway length? Discuss. a) Explain about design factors of Runway Pavement. b) How drainage is designed for Runway? a) What are the uses of Transition Shed in Port?

\*\*\*\*

www.FirstRanker.com

Code No: R1631015

R16

SET - 3

# III B. Tech I Semester Regular Examinations, October/November - 2018 TRANSPORTATION ENGINEERING – II

TRANSPORTATION ENGINEERING – II						
ime: 3 1		Iarks: 70				
2. Answer ALL the question in <b>Part-A</b>						
	3. Answer any <b>FOUR</b> Questions from <b>Part-B</b>					
	DADT A					
a)		[2M]				
	·	[2M]				
•		[2M]				
ŕ	•	[3M]				
,	•	[3M]				
	• • • • • • • • • • • • • • • • • • • •	[2M]				
1)	PART -B	[211]				
a)	What are the components of Permanent Way? Explain.	[7M]				
b)	Write about Rail fastenings?	[7M]				
-)	Define Cont What are the abilities of 149	[7] \ (1)				
-		[7M] [7M]				
U)	write about widening of Gauge on Carves.	[/1/1]				
a)	Discuss about various types of Switches.	[7M]				
b)	Explain about Mechanical Signaling System.	[7M]				
`		[7] (1)				
		[7M]				
b)	Write about standards Airport Markings.	[7M]				
a)	A flexible pavement is planned at a New Airport for Runway. How Runway	[7M]				
	pavement is designed?					
b)	What is the process of strengthening of Airfield Pavement?	[7M]				
a)	Describe the construction process of Quay wall.	[7M]				
b)	Write about Tides data and Analysis.	[7M]				
	a) b) c) d) e) f) a) b) a) b) a) b) a) b) a)	ime: 3 hours  Note: 1. Question Paper consists of two parts (Part-A and Part-B) 2. Answer ALL the question in Part-A 3. Answer any FOUR Questions from Part-B  PART -A  a) Draw a neat diagram of Permanent Way. b) What is Gauge? c) List various Gradients in Railways. d) How the direction of a Runway is fixed? e) What are different methods of rigid pavement of Runway? f) What is the purpose of Warehouse?  PART -B  a) What are the components of Permanent Way? Explain. b) Write about Rail fastenings? a) Define Cant. What are the objectives of it? b) Write about widening of Gauge on Curves. a) Discuss about various types of Switches. b) Explain about Mechanical Signaling System. a) How Airports are classified based on various aspects? b) Write about standards Airport Markings. a) A flexible pavement is planned at a New Airport for Runway. How Runway pavement is designed? b) What is the process of strengthening of Airfield Pavement? a) Describe the construction process of Quay wall.				

\*\*\*\*

www.FirstRanker.com

Code No: R1631015

**R16** 

SET - 4

# III B. Tech I Semester Regular Examinations, October/November - 2018 TRANSPORTATION ENGINEERING – II

(Civil Engineering)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (Part-A and Part-B)

2. Answer ALL the question in Part-A

3. Answer any **FOUR** Questions from **Part-B** 

### PART -A

1.	a)	List Permanent Way components.	[2M]					
	b)	Give two uses of Uni-Gauge Policy.	[2M]					
	c)	What is Degree of Curve?	[2M]					
	d)	How Airports are classified?	[3M]					
	e)	What are the main points to considered for Airport Drainage?	[3M]					
	f)	Draw a neat diagram of Break Water.	[2M]					
PART -B								
2.	a)	What are various types of Gauges of Railway network? Explain.	[7M]					
	b)	Write about Sleeper Density.	[7M]					
3.	a)	Calculate Cant for BG Track, 2 <sup>0</sup> Curve, equilibrium speed 80Kmph.	[7M]					
	b)	Define Transition Curve. Write about purpose and requirements of it.	[7M]					
4.	a)	How Turnout is designed?	[7M]					
	b)	Write about methods of interlocking.	[7M]					
5.	a)	Explain about ICAO recommendations of Airport Master Plan.	[7M]					
	b)	What are the requirements of Air Traffic Control?	[7M]					
6.	a)	Discuss about LCN system of Pavement design for Runway.	[7M]					
	b)	How Airfield Pavements are evaluated?	[7M]					
7.	a)	You are appointed as an Engineer in a Port. Explain the importance of Dredging to the workers in that Port?	[7M]					
	b)	How do you help (aid) the ship to follow a particular path in Sea?	[7M]					

\*\*\*\*