Total No. of Printed Pages:02

SUBJECT CODE NO:- H-265 FACULTY OF SCIENCE AND TECHNOLOGY T.E. (Civil)

Transportation Engg.- II (OLD)

[Time:	: Three Hours] [Max. Mark	s: 8
N.B	Please check whether you have got the right question paper. i)figures to the right indicate full marks ii) Question no.1 and 6 are compulsory. iii) Solve any two questions from remaining of each section. Section A	
Q.1	Explain briefly the modified classification of road system in India as per the third twenty year road development plan ,1981-2001.	10
Q.2	a) What is super elevation? Derive an expression for super elevation.	07
	b) Explain different types of failures in rigid pavements with neat sketch	08
Q.3	The speed of overtaking and overtaken vehicles are 86kmph and 70kmph, respectively on a two way road .if the acceleration of overtaking vehicle is 0.99 m/sec ² . i) Calculate safe overtaking sight distance ii) Minimum length of overtaking zone. iii) Draw a neat sketch of the overtaking zone showing positions of sign post.	15
Q.4	a) Enlist different tests carried out on aggregates. Explain any one in detail	07
	b) What are various types of surveys carried out while designing highways	08
Q.5	a) Discuss vision 2021. And it's recommendations in detail	07
.8	b) Explain the total reaction time of driver and the factors on which it depends.	08
2 A.V.	Section B	
Q.6	Draw a sketch of flexibly pavement cross section and show component parts. Explain the function and importance of each component of pavement.	ı 10
Q.7	a) State the functional classes of traffic signs with example.	07
	b) List various excavating machinery used during Highway construction . mention the uses and limitations of any two	08

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Q.8	a) Calculate the equivalent radius of resisting section of 20cm slab . given the radius of contact area of wheel is 15 cm.	07
	b) Discuss the general causes of pavement failure.	08
Q.9	a) Discuss briefly the importance of highway maintenance.	07
	b) Differentiate between flexible and Rigid pavements.	08
Q.10	Explain group Index method of Pavement design. What are the limitations of this method	15