

D.Y.PATIL COLLEGE OF ENGINEERING & TECHNOLOGY
KASABA BAWADA KOLHAPUR-416006
(An Autonomous Institute)
T. Y. B. Tech

END SEMESTER EXAMINATION(ESE),Nov. – 2022
Course Name: Highway and Transport Engineering Course Code: 201CEL303

Model Answer key

Q.No.		Marks
Q.1		20
a	Explain the 6 factors Affecting Alignment of Road-Each carry 1 mark.	6M
b	$e=0.072$, $f=0.058$	Unit: 1,2,3 7 M
c	Enlist various tests on bitumen-1 mark and explain any two in detail –Each carry 3 marks	7 M
Q.2		10
a	Factors affecting pavement design- Each carry one mark	6
b	4 points difference between rigid and flexible pavement –each carry 1 mark OR All types of joints in rigid pavement- each carry one mark	Unit: 4 4
Q.3		10
a	Construction steps of Bituminous Macadam -3 marks Material Specification -3marks OR process of cement concrete pavement construction – Sub grade, sub base, PQC – Each carry 2 marks	Unit: 5 6
b	process of Sub grade and sub base construction -2 marks MORTH specifications-2 marks	4
Q.4		10
a	Define Traffic Volume, Traffic Density, Traffic capacity -Each carry 1 mark PCU -2 marks	Unit: 6 5
b	traffic volume study-2.5 marks speed studies-2.5 marks	5
C	two types of intersection in detail-Each carry 2.5 marks	5