TRANSPORTATION ENGINEERING

Course code	Course title	No. of period/week	Total no. of periods	Marks for Formative Assessment	Marks for Summative Assessment
C-404	Transportation Engineering	04	60	20	80

Model Paper for Unit Test-I State Board of Technical Education and Training, A.P.Diploma in Civil Engineering (DCE)

	Fourth Sem	ester: C-404 TRANSPORTATIO	N ENGINEERING	
Ti	me: 90 Minutes	Unit Test –I	Maximum	
		Marks: 40PART- A	16 Marks	
In	structions: (i) Answer all questions (ii) First question carries	FOUR marks, each question o	of remaining carries Th	IREE marks.
1.	(a) The longitudinal slope of	a road is called		(CO1)
	(b) Rise of the outer edge of	the road above the inner edge	e is called	(CO1)
	(c) Example for mandatory si	gn is		(CO2)
	(d) The purpose of catch bas	in in the road drainage system	n is to	(CO3)

2.	Define the terms (a) Liquid limit (b) Plasticity index	(CO1)
3.	Draw the cross section of flexible pavement showing various components.	(CO2)
4.	What are the traffic signs? State the classification.	(CO2)
5.	Write any three requirements of good highway drainage system.	(CO3)
	PART- B	3 x 8 = 24 Marks
Inst	ructions: (i) Answer all questions (ii) Each question carries EIGHT marks (iii) Answer should be comprehensive and the criterion for valuatior contentbut not the length of the answer.	n is the
6. (A) Explain how different engineering surveys are conducted for locating the ali	gnment of road. (CO2)
	(OR)	` ,
(B) State factors influencing selection of alignment for road project.	(CO2)
7. (A) State objects of traffic survey and state various studies that are generally ca	rried out. (CO2)
	(OR)	
(B) Explain about various traffic signs used in highways.	(CO2)
8. (A) State and explain about surface drainage and sub-surface drainage wit of neatsketches.(CO3)	h the help
	(OR)	
(B) Explain various types of machinery used in highway construction.	(CO3)
Tim	Model Paper for Unit Test-II: State Board of Technical Education and Training, A.P.Diploma in Civil Engineering (DCE) Fourth Semester: C-404 TRANSPORTATION ENGINEERING Te: 90 Minutes Unit Test –II Maximum Marks:	4 <u>0</u>
	PART- A	16 Marks
Inst	ructions:	
	(i) Answer all questions	
	(ii) First question carries FOUR marks, each question of remaining carrie	
1.	(i) The expansion of W.B.M(ii)Which of the follow	ing causes stresses in
	Sleepers?	
	a) Eccentric vertical loads	
	b) Contact shear stress of wheel and rail	
	c) Lateral deflection of sleepers (CO3)	,
	d) Track components	(CO4)
	(iii) Pick up the incorrect statement from the	
	owing:(a)Fish plates fit the underside of the rail	
hea		
	Fish plates fit the top of the rail foot	
(c)	Fish plates fit the web of the rail section	

(d) Cross sectional area of fish plates, is normally the same as that of the rail section	tion (CO4)
(iv) The difference between the bridge and culvert is with respect to	(CO5)
2. Distinguish between rigid pavement and flexible pavement.	(CO3)
3. Write any three functions of railway sleepers.	(CO4)
4. Define gauge. State different types of gauges adopted in Indian railways.	(CO4)
State any three facilities provided in loco yards.	(CO4)
,	` ,
PART- B	3 x 8 = 24 Marks
Instructions:	
(i) Answer all questions	
(ii) Each question carries EIGHT marks	
(iii) Answer should be comprehensive and the criterion for valuation is the	he content
but notthe length of the answer.	
6. (A) Explain the method of construction of W.B.M road.	(CO3)
(OR)	
(B) Explain different stages involved in the construction of cement concrete pa	
	(CO3)
7. (A) Explain different types of rail joints with a neat sketch.	(CO4)
(OR)	
(B) Draw a neat sketch of cross section of a permanent way and indicate the	e parts and
mentionthe purpose of each part.	1004
	(CO4
8. (A) Explain different types of yards with neat sketches.	(CO4)
(OR)	(CO4)
(B) State the factors to be considered for selection of site for a bridge.	(CO5)
(b) State the factors to be considered for selection of site for a bridge.	(CO5)
000	
Model Test Paper	

Model Test Paper

State Board of Technical Education and Training, A.P.

Diploma in Civil Engineering (DCE)

Fourth Semester: C - 404 TRANSPORTATION ENGINEERING

Time: 180	Minutes	End Examinations	Maximum Marks: 80
		PART – A	$3 \times 10 = 30 \text{ Marks}$
Instructions:			
(i)	Answer all questions		
(ii)	First question carries THI	REE marks.	
(iii)	Answer should be brief as	nd straight to the point and shall not exceed	
fiv	e simple sentences.		
1. State a	any three important function	ons of I.R.C.`	(C01)
2. List a	ny three types of soils.		(C01)

3	State the necessity of widening of roads in c	urves.	(C02)
4	What is meant by grade separation on roads	?	(C03)
4	State the need for joints in Cement Concrete	roads.	(C03)
(Define the terms (i) Freeboard, (ii) Scour de	pth and (iii) Afflux.	(C04)
7	State the classification of bridges based on n	naterials and type of super structure.	(C04)
8	State the classification of stations		(CO4)
Ģ	Define the terms (i) Water way	(ii) Afflux	(CO5)
1	List any three types of causeways.		(C05)
PART – B 5 x 10 = 50 Marks Instructions: (i) Answer any FIVE questions (ii) Each question carries TEN marks. (iii) Answer should be comprehensive and the criterion for valuation is the content by not the length of the answer.			
1	Explain the components of a road with a near	t sketch	(CO1)
	What are the factors influencing alignment of Explain the traffic islands with neat sketches	*	(C02) (CO2)
1	Explain the methods of providing sub surface	e drainage	(C03)
1	Explain the method of construction of WBN	M road	(CO3)
1	Explain any four types of rail joints with near	at sketches.	(C04)
1	Describe different types of turnouts with near	at sketches	(CO4)
1	Sketch a bridge sub structure and explain the	e component parts	(C05)

---- oO0Oo ----