5820

BOARD DIPLOMA EXAMINATION, (C-16S)

NOVEMBER - 2019

DCE - V SEMESTER EXAMINATION TRANSPORTATION ENGINEERING

Time: 3 Hours]

Total Marks: 80

PART - A

3×10=30

Instructions:

- (1) Answer ALL questions.
- (2) Each question carries THREE marks.
- (3) Answer should be brief and straight to the point.

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State any Three functions of LR.C. (Indian Road Congress) 3×1=3

2/ Define the terms (a) Camber (b) Formation width.

 $1\frac{1}{2}+1\frac{1}{2}$

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List any Three Surveys for fixing Highway alignment.

3×1=3

4 List any Six traffic census conducted for collecting
Traffic Data.

 $6 \times \frac{1}{2} = 3$

5 State any Three different types of joints used in Cement 3×1=3
Concrete Roads.

[Contd...

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	PART - B	10×5=50
10	Define the Terms (a) Afflux (b) Free Board	$1\frac{1}{2}+1\frac{1}{2}$
,	State any Three types of Bridges based on materials.	3×1=3
	(b) Right hand turnout.	$1\frac{1}{2}$ $1\frac{1}{2}$
<i>y</i>	Define (a) Left hand turn out.	1 1/2
	State the classification of rails based on gauges.	$1\frac{1}{2}$ $1\frac{1}{2}$
A	(a) Define Gauge.	1 1/2
/ 6	State any Tree equipments and their purpose used in construction of different roads.	3×1=3

- Instructions:
- (1) Answer any FIVE questions
- (2) Each question carries TEN marks
- (3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.
- Explain the components of road C/S (C/S means Cross Section) with a neat sketch.
 - Define Gradient and list different types of Gradients 2+3 12 used in Highways. 3
 - (b) State the necessity of Transition curves in Highways. List different types of Vertical Curves used in Highways.
 - [Contd...

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137 Expl	ain the	factors	influencing	selection	of	alignment	for
road	in Plai	n Areas					

14	Explain	with	a	neat	sketch	:
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Diamond Intersection. (a)

5

Clover leaf intersection in Roads. (b)

5

State the methods of providing surface and sub-surface 15 Drainage system in Highways.

5+5

Explain the procedure for construction of Water Bound Macadam road.

State any Five characteristics of Good Sleeper.

5

State any Five characteristics of Good Ballast. (b)

5

Explain with a neat sketch:

5+5

- High Level Couseway. (a)
- Low Level Causeway. **(b)**

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