CT-501/CT/5th Sem/2018/M

Full Marks - 70

Pass Marks - 28

Time - Three hours

The figures in the margin indicate full marks for the questions.

PART - A

Answer question no.1 compulsorily: 1×25=25

- The road connecting capitals for states is knows as
 - Slab culverts are sur National highway (a)
 - (b) Provincial highway
 - (c) State highway
 - (d) Express highway
 - (ii) The road surface should be
 - (a) Impervious
- (b) Durable

- (c) Stable (d) All of the above

Turn over

	NOTOR	BONE MORTORIUS/ACT	
	(c) having	g proper sight distance	
	(d) All of	f the above	
(iv)	The main advantage of long rail over short rail is		
	(a) It requires less number of rail fastenings		
	(b) It provides smooth running of train		
25=25	(c) Low maintenance cost		
ates is	(d) All of	the above	
(v)	of	ts are suitable for maximum span	
	(a) 3m	(b) 6m	
	(c) 9m	(d) 12m	
(vi)	End supports of the superstructure of a bridge is called ———.		
(vii)		structed on both sides of the are called ———.	
54/CT-501	I/CT	(2)	

(iii) Camber in the road is provided for

(b) counteracting the centrifugal force

(a) effective drainage

(VIII)	The top width of track embankment is known as:
	(a) Right of way
	(b) Formation width
	(c) Subgrade absort the mO (b)
tou si	(d) None of the above the following statement
	What is the function of fish plate?
	The main aim of providing a camber is
FRCC	(b) A box culvert is constructed o
befrie	great store that the factor maderious
(11)	The space on both sides of the roadways provided to protect the road is known as
	200 B (B) - 100 B (B) - 100 B (B) B
nlicib o	provided to protect the road is known as
nlicib o	Obtuse angle crossing is also called as: (a) Diamond crossing
nlicib o	Obtuse angle crossing is also called as:
(xii)	Obtuse angle crossing is also called as: (a) Diamond crossing
(xii)	Obtuse angle crossing is also called as: (a) Diamond crossing (b) V-crossing

(3)

54/CT-501/CT

[Turn over

- (xiii) The parking lanes are provided on
 - (a) National highway
 - (b) Urban roads
 - (c) State highways
 - (d) On all roads
 - (xiv) Which of the following statement is not correct?
- (a) In slab culvert, a RCC slab is simply supported over abutment.
- (b) A box culvert is constructed of RCC with one or more box casted monolithically.
 - (c) In a box culvert a pipe is fitted to drain off water.
 - (d) Arch culverts are culverts having its superstructure consisting of one or two arches.
 - (xv) The difference between the high flood level and the level of the crown of the road at its lowest point is known as ———.

(xvi) S	lah culverte one	-411 0	
omey of	lab culverts are	of our of	aximum span
		(b) 6m	
(c) 9m		(d) 12m	(sod) Spaci
ro	ulverts are cons adway or railway	structed main track over sn	all streams
(xviii) Tra	ack geometrics	include	(b)
(a)	Cross-sectiona	al elements	nfW (ibo)
(b)	Curves	LIBITS	18/11
(c)	Gradients	Broken sur	(8)
(d)	All the above		(9)
(xix) Brid	dge having its	floor suppor	ted at the
(a)	Sky bridge	spikes.	
(b)	Through bridge	o process of	D'(vizz)
(c)	Both (a) & (b)	above	
(d)	None of the al	ove	H (vax)

(a)	axle load and speed			
(b)	type and section of rails			
(c)	type of ballast			
(d)	All of the above			
		ving is the best ballast		
(a)	Broken stone	(b) Gravel		
(c)	Cinder	(d) Sand		
(xxiii) The	fixture used to	join rails is		
sili ta (a)	Fish plates	(b) Bearing plate		
(c)		(d) Keys		
	process of rami	ming the ballast under- known as ———.		
	low girder brid er R.C.C. bridge	ges can be classified e. (True / False)		
54/CT-501/CT	(6)	Towness out		

(xx) Super elevation is provided to introduce

the centrifugal force.

(xxi) Spacing of sleeper depends on

force to counteract the tendency of

mE (E)

PART - Bo serior frode stirll

Answer any three from question no.2 to question no.5 and answer question no.6 compulsorily.

- 2. (a) Explain the construction procedure of WBM road.
 - (b) What do you understand by rigid pavement and flexible pavement?

 4
- 3. (a) What are the factors to be considered while selecting site for a bridge?
 - (b) What are the different types of R.C.C. bridge? Explain any one with neat sketch.
- 4. (a) With neat sketch explain pipe culverts. 5
 - (b) What are the merits and demerits of wooden sleepers?
- 5. (a) What are the good characteristics of ballast?
 - (b) What do you understand by road geometrics?

6. Write short notes on any three:

5×3=15

and answer question no.

- (a) Flat footed rails
- (b) Crawler tractor
- (c) Bituminous macadam

What do you undestraid by that payetheint

bridge? Explain any one with neat sketch

With neat sketch explain pipe culveris

(a) What are the poled couracteristics of buildest ?

and flexible payement?

selecting site for a bridge?

(d) Rotary intersection