Total No. of printed pages = 4

Ele dans are considered as rigid

## **END SEMESTER EXAMINATION – 2019**

162 mod appoint Semester - 5th

Subject Code: CT-501

## CONSTRUCTION TECHNOLOGY

Full Marks - 70

to see and Time - Three hours and fittell - A

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

## Instructions:

- 1. Questions on PART-A are compulsory.
- 2. Answer any five questions from PART-B.

PART - A

Marks - 25

Answer the following questions as directed:

1×15=15

- The value of broad gauge is mm.
   (Fill in the blank)
- 2. Wheels of the train are coned with a value of
  - (a) 1 in 20
- (b) 1 in 25
- (c) 1 in 30
- (d) 1 in 40

(Choose the correct answer)

[Turn over

72/C					12.	ΩĒ			5	9.		<u>,</u>		7.		6.	ب	No.	ω 4.
72/CT-501/CT	(Choose the correct answer)	(c) ISD	(a) SSD	every section of road is	The minimum sight distance to be available at	to drain off rain water. (Write true or false)	iaise)	vibrations due	Rallast in rai	Concrete dams can be designed as overflow dams.  (Write true or false)	(Write true or false)	Earthen dams are suitable as overflow dams.	their thin section. (Write True or False)	Uplift pressure is minor in arch dam because of	(Write true or false)	Earthen dams are non-rigid dams.	weight. (Write true or false)	dams. (Write	IRC stands for ———. (Fill in the blank)  Cement concrete dams are considered as rigid
(2)	orrect answer	(d) HSD	(b) USD	of road is	sight distanc	ss-slope provi		to moving t	lway track	can be design false)	false)	are suitable	ion. (Write T	is minor in	false)	are non-rigid	true or false	(Write true or false)	ete dams are
	cost the co	ISD			e to be avail	ded to road rite true or 1		rain. (Write	hearhs shoc	ed as overflow		as overflow	rue or False)	arch dam bec		dams.	ece inrough u	O SEMEZI(	—. (Fill in the blank) ms are considered as a
	Ċ	8			lable at	surface (Salse)	CE	true or TRA	ks and	w dams.		dams.	off	ause of			neir seli	0	ınk) as rigid
72/		26.			25	Some u INSTRUCTOR	23		2	46 H	19.	18	77	16	Ę	1 +	15.	14.	- T
72/CT-501/CT	charge.	. (a) Explain			25. Ridge canal.	MSTRUE 24. Productive canal	23 Permanent canal	22. Zoned typed soil dam	Homogene	Overflow	Detention	18. Diversion	17. Storage dam	16. Sight distance	Define the following:		Wooden (Write tr	Concrete true or fa	13. Wooden sleepers are the ideal sleepers for railway track. (Write true or false)
			Marks - 45	PART - B	al. October 201	canal	canal	ed soil dam	Homogeneous soil dam	dam	dam	dam			lowing:		Wooden sleepers have (Write true or false)	sleepers hav	Wooden sleepers are the idea track. (Write true or false)
(3)		ssification 1		4	u the author	100 miles		supported the	m out out			the cross-act	The state of the s		and the advi-		⁄e minimun	e high scrap	ne ideal sleepers false)
{Turn over		canal classification based on dis-	(g) Exhibiting	NAME OF TAXABLE PARTY.	(a) . Explicit	sercon	Carlo J. Contra	Explain	TECH METERS		(p) Exbini	Merci (a)	CAN Investment		1×10=10	S. C. L.	minimum service life.	sleepers have high scrap value. (Write alse)	ers for railw
7	ω	S-													0		Ē.	ite	ау

	A ANALY	
(b)	Explain the factors to be considered fixing canal alignment.	while
) [r (c)	What are the necessity of canal lining	35
27. (a)	What should be the characeristics of lining material?	cana 3
(b)	) What are the advantages and disadvan of wooden sleeper?	tages
(c)	Explain any two types of ballast mate	rials.
28. (a)	Draw the cross-section of a railway tra	ck. 4
(b)	Explain the classification of dam acco to use.	rding 5
29. (a)	What are the advantages of gravity dan	1 ? 4
(b)	Explain physical factors governing sele of a particular type of dam.	ction 5
30. (a)	Explain the factors to be considered viselecting site for a dam.	while 5
(b)	Explain the various causes of failure earthen dams.	for
31. (a)	Explain arch dam.	5
(b)	Explain uses of reservoir.	4
72/CT-5	501/CT (4) 70	)(W)
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