Total No. of printed pages = 6

RETEST EXAMINATION - 2022

Semester: 5th

Subject Code: CT-501

CONSTRUCTION TECHNOLOGY

Full Marks - 70

Time - Three hours

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

Instructions:

- (i) All questions of PART-A are compulsory.
- (ii) Answer any five questions from PART-B.

PART - A

Marks - 25

1.	Answer	the	following	questions	as	directed:	
			August 1			1 × 15-1	

(a) The value of Broad gauge is ____ mm. (Fill in the blank)

[Turn over

OF WEAL	JBR.
/ * /	(b) Wheels of the train are coned with a value of
WTEAL IN	(a) 1 in 20 (b) 1 in 25
DE OF THE	(c) 1 in 30 (d) 1 in 40
	(Choose the correct option)
	(c) IRC stands for (Fill in the blank)
9 8 8 8	(d) Cement concrete dams are considered as rigid dams. (Choose the correct option)
	(i) True (ii) False
	(e) Gravity dams resist water force through their
	self-weight. (Choose the correct option)
	(i) True (ii) False
	(f) Earthen dams are non-rigid dams. (Choose
	the correct option)
	(i) True (ii) False
21	(g) Uplift pressure is minor in arch dam because of their thin section. (Choose the correct option)
	(i) True (ii) False
106/	CT-501/Cons.Tech. (2)

(h)	Earthen dams are suitable as overflow dams. (Choose the correct option)
	(i) True (ii) False
(i)	Concrete dams can be designed as overflow dams. (Choose the correct option)
	(i) True (ii) False
(j)	Ballast in railway track absorb shocks and vibrations due to moving train. (Choose the correct option)
	(i) True (ii) False
(k)	Camber is cross-slope provided to road surface to drain off rain water. (Choose the correct option)
	(i) True (ii) False
(1)	The minimum sight distance to be available at every section of road is
	(i) SSD (ii) OSD
	(iii) ISD (iv) HSD
****	(Choose the correct option)
106/CT-5	501/Cons.Tech. (3) [Turn over

	(m)		ooden lway t							
		(i)	True			(ii)	Fals	e		
	(n)		ncrete hoose				_	scra	p va	lue.
		(i)	True			(ii)	False	2		
	(o)		ooden s noose					n ser	vice 1	ife.
		(i)	True			(ii)	False	PIDE		
2.	Def	fine	the fo	llowin	g ter	ms i	n brie	ef: 1	×10=	10
	(a)	Sig	ht dist	ance	1			TRAL	JRA	
-Uit	(b)	Sto	rage d	am			(*)		BRAD	1
	(c)	Div	ersion	dam		1	ATT-		No.	1
	(d)	Det	ention	dam		1	35	1	.)	13/
1	(e)	Ove	erflow	dam		VE	150	FTEC		/-
	(f)	Ho	mogen	eous s	oil d	am		12.00		
	(g)	Zor	ned typ	ed so	il daı	n				
	(h)	Per	manen	cana	1					
d:	(i)	Pro	ductive	cana	1					
	(j)	Rid	ge car	al.						9. II W.I
106	/CT-5	501/0	Cons.Te	ech.	(4)				55(V	W)

PART-B

Marks – 45

3.	(a)	Explain canal classification based on discharge.
	(b)	Explain the factors to be considered while fixing canal alignment.
	(c)	What are the necessity of canal lining? 3
4.	(a)	What should be the characteristics of canal lining material?
	(b)	What are the advantages and disadvantages of wooden sleeper?
	(c)	Explain any two types of ballast materials
5.	(a)	Draw the cross-section of a railway track.
	(b)	Explain the classification of dam according to use.
6.	(a)	What are the advantages of gravity dam?
	(b)	Explain the physical factors governing selection of a particular type of dam. 5
10	CICT	501/Cong Tech (5) [Turn over

7.	(a)	Explain the factors to be considered viselecting site for a dam.	vhile 5
	(b)	Explain the various causes of failure earthen dams.	for 4
8.	(a)	Explain arch dam.	5
	(h)	Explain the uses of recomposit	

