Total No. of printed pages = 4

END SEMESTER EXAMINATION - 2021

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:

- 1. All questions of PART-A are compulsory.
- 2. Answer any five questions from PART-B.

PART - A

Marks - 25

1. Answer the following questions as directed: $1 \times 15 = 15$

(i)	The value of	reaction	time of	of d	rive	r for SSD
	is	seconds.	(Fill	in	the	blank.)

(ii) Abutments are intermediate supports to bridge deck. (Write true/false.)

[Turn over

(xiii)Protective canals does not generate revenue. (Write true/false.) (xiv)Lining of canal reduces water logging. (Write true/false.) (xv)Broad gauge is widely adopted in India. (Write true/false.) $1 \times 10 = 10$ Define the following: (ii) Abutment (i) Pier (iv) Afflux (iii) Wing wall (v) Headroom (vi) Bridge (viii)High level bridge (vii)Culvert (x) Submersible bridge (ix) Deck PART-B Marks - 45 (i) (a) Draw the neat sketch of a bridge and mention its various parts. (b) Give the classification of bridges. 17/CT-501/Cons.Tech. (3) Turn over

(ii) (a)	What are the uses of dam?
	What are the requirements of a site for a bridge?
(iii) (a)	What are the factors governing selection of a type of a dam?
(b)	What are the causes of failure of earthen dam?
(iv) (a)	What are the advantages and disadvantages of arch dam?
(b)	Explain the method of dam construction.
(v) (a)	How to control weed growth in a canal?
agano i	evel perfetting — Perfetting
(b)	Show the various components of a
	railway track with a neat sketch. 5
(vi) (a)	What are the requirements of a canal
	lining material?
(b)	Explain Shotcrete lining. 4
	GALLIBRADE

17/CT-501/Cons.Tech.

(4

60(W)