Total No. of printed pages = 4

19/5th Sem/DCE501

2021

CONSTRUCTION TECHNOLOGY

Full Marks - 100

Time - Three hours

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

Answer any five questions.

- (a) Explain the construction procedure of WBM road.
 - (b) What is canal lining? What are the necessities of canal lining? 2+4=6
 - (c) What are the factors to be considered while selecting site for a bridge?

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 - (d) What are rigid pavement and flexible pavement?
- 2. (a) What are the factors to be considered while fixing canal alignment?
 - (b) What are the advantages and disadvantages of concrete sleeper?

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	(c)	to their use?
	(d)	What are the factors to be considered while selecting site for a bridge?
3.	(a)	What factors are considered while selecting site for a reservoir ?
	(b)	With respect to the zones of storage for reservoir define the following : $4 \times 2=8$
		(ii) Minimum pool level (iii) Normal pool level (iii) Useful storage
		(iv) Dead storage.
	(c)	What is gravity dam? What are its advantages and disadvantages?
4.	(a)	What are the advantages and disadvantages of arch dams?
	(b)	Explain the physical factors governing the selection of particular type of dam.
	(c)	What are the factors to be considered while selecting site for a dam ?
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(a) What are earthen dams? Explain the different methods of constructing earthen dams. 2+6=8 (b) Explain: (i) Homogeneous dam (ii) Zoned dam and (iii) Diaphragm dam. (c) Explain the different causes of failure of earthen dam. (a) What are the classification of roads as per Nagpur Road Plan? (b) Explain briefly the factors on which the geometric design of highways depend. (c) Define the following: (i) Camber (ii) Carriageway (iii) Medians W. #5 (iv) Kerbs (v) Right of way.

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- (d) Explain the following:
 - (i) Coning of wheels
 - (ii) Types of ballast
 - (iii) Stopping sight distance
 - (iv) Overtaking sight distance
 - (v) Abutments.

