## END SEMESTER/ RE-TEST EXAMINATION, 2020 Semester:5<sup>th</sup>

Subject code: CT 501

Subject: Construction Technology

Full Marks: 70

**Duration: 3 hours** 

### **Instructions:**

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

PART-A	
1. Answer the following	$(1 \times 15 = 15)$
i). The value of Metre gauge ismm	
ii). Gauge is the centre to centre distance between two rails.	
(a) True (b) False	· 克特斯·哈特尔 (1000) (1000) (1000)
iii). ISD stands for	
iv). Reservoir is an artificial lake	
(a) True (b) False	
v). Gravity dams are less strong and stable than earthen dams	
(a) True (b) False	
vi). Earthen dams can be constructed on weak foundation.	
(a) True (b) False	
vii). Arch dams thickness is less than gravity dam.	
(a) True (b) False	
viii). Gravity dam need strong foundation.	

- ix). Railway maintenance cost is higher than roads.
- (a) True (b) False

(a) True (b) False

x). Ballast acts as cushion in railway track.



- (a) True (b) False
- xi). Cement concrete roads require less camber than bituminous roads.
- (a) True (b) False
- xii). Wooden sleepersresults in less vibration and noise in railway tracks.
- (a) True (b) False
- xiii). Sand can be used as railway ballast.
- (a) True (b) False
- xiv). Flat footed rails are better than bull headed rail.
- (a) Trué (b) Fálsé
- xv). Major part of India adopted Broad Gauge railway track.
- (a) True (b) False

# 2. Define the following

 $(1 \times 10 = 10)$ 

- i). Camber
- ii). Sight distance
- iii). SSD
- iv). Gauge
- v). Dam
- vi). Bridge
- vii). Culvert
- viii). Canal
- ix). OSD
- x). Reservoir

### Part B

### 3. Answer any five from the following

- ia) Draw the cross section of a railway track and mention its various components.
- 5

ib) Explain the factors to be considered while fixing canal alignment.





iia) Whatare the functions of various railway components?	4
iib) What the advantages and disadvantages of concrete sleeper?	. 4
iiia) Evelain different nones of stores in a securit	
iiia) Explain different zones of storage in a reservoir	2
iiib) Explain classification of dam according to materials of construction.	5
iva) what are the advantages and disadvantages of earthen dam?	4
ivb) With neat sketch show different components of bridge.	5
va) Explainsand and brick ballast	4
vb) Explain construction of earthen dams	5
via) Explain buttress dam	5
vib) Write any four uses of reservoir	Δ

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