

Student Exam No:

GANPAT UNIVERSITY
B.TECH SEM IV CIVIL ENGINEERING
REGULAR EXAMINATION MAY/JUNE- 2013
2CI403 BUILDING CONSTRUCTION

Time: 3 Hours

Max Marks: 70

- Instructions:** - (1) Answer to the two sections must be written in separate answer books.
(2) Figures to the right indicate full marks.
(3) Assume suitable data if required.

SECTION - I

- Q1 (A)** Describe with neat sketches various devices used for lifting stones. (6)
(B) Classify Arches according to the type of material being used. (6)
Explain them briefly.

OR

- Q1 (A)** Define underpinning. What are the objectives of underpinning? (6)
(B) Define composite masonry. Explain Brick Stone Composite Masonry and Reinforced Brick Masonry with neat sketches. (6)

- Q2 (A)** Write a short note on methods of Damp Proofing. (6)
(B) Enlist the essential requirements of good foundation. (5)

OR

- Q2 (A)** Define the term plastering. Write the objectives of plastering. What are the requirements of good plaster? (6)
(B) What are the advantages of cavity walls? (5)

- Q3 (A)** Enlist the different types of bonds in brick masonry. Explain any five of them with neat sketches. (6)
(B) Write a short note on fire extinguishing equipments. (6)

SECTION - II

- Q4 (A)** Explain the method of wash boring for site exploration purpose. (5)
(B) Define the following: (i) Parliamentary hinge (ii) Transom (iii) Style (iv) Butt hinge (4)
(C) Draw a neat figure of Collapsible Steel Door. (3)

GANPAT UNIVERSITY
B.TECH- SEMESTER-IV CIVIL ENGINEERING
REGULAR(CBCS) EXAMINATION MAY/JUNE- 2013
SUBJECT: 2CI: 404- BASIC TRANSPORTATION SYSTEMS

Time: 3 Hours

Max Marks: 70

Instructions: - (1) Answer to the two sections must be written in separate answer books.

(2) Figures to the right indicate full marks.

(3) Assume suitable data if required.

SECTION - I

- Que 1** **Answer the following Questions.**
- (A) Explain Comparison between Railway and Highway transportation. (6)
- (B) Discuss the briefly, factors affecting the choice of particular gauge. (6)
- OR**
- Que1** **Answer the following Questions.**
- (A) What do you understand by Permanent way? Give requirement of ideal permanent way. (6)
- (B) What is ballast? Describes types of ballast. (6)
- Que 2** **Answer the following Questions**
- (A) Explain theory of coning. (5)
- (B) Enumerate the parameters which affect the geometric design. And Define (6)
- (i) Ruling gradient (ii) Pusher gradient (iii) Momentum gradient
- OR**
- Que 2** **Answer the following Questions**
- (A) What is interlocking and what is its necessity and functions? (5)
- (B) Define Crossing and Explain Acute angle crossing and Diamond crossing. (6)
- Que 3** **Answer the following questions.**
- (A) Enlist the factors should be considered in selecting the site for a station. (4)
 Explain any two of them.
- (B) What is creep of rails? Describes effects of creep. (4)
- (C) The first Indian railway was laid in (1)
 (a) 1775 (b) 1804 (c) 1825 (d) 1853 (e) 1876
- (D) On Indian Railway standard length of rails for B. G. track, is (1)
 (a) 10.06 m (b) 10.97 m (c) 11.89 m (d) 12.8 m
- (E) Best wood for wooden sleepers is (1)
 (a) chair (b) deodar (c) Sal (d) teak (f) shesham
- (F) Sand may be used as ballast for, (1)
 (a) Wooden sleepers (b) steel sleepers (c) Cast iron sleepers (d) All