

AQ - 2814

Second Semester M. E. (Civil) Examination

**TRANSPORTATION SYSTEM**

Elective - III

2 SFTR 5

P. Pages : 2

Time : Three Hours ]

[ Max. Marks : 80

- Note :** (1) All question carry equal marks.  
(2) Due credit will be given to neatness and adequate dimensions.  
(3) Assume suitable data wherever necessary.  
(4) Illustrate your answer wherever necessary with the help of neat sketches.  
(5) Answer any **Five** questions.  
(6) Use pen of Blue/Black ink/refill only for writing the answer book.

1. Attempt any **Two** :—

(a) Write in brief on

– CRRI

– PMGSY

8

(b) What are the infrastructural requirements of Airways Transportation system?

8

(c) Explain transport impact on environment.

8

2. Attempt any **Two** :—

(a) Write brief note on :—

(i) IRC

(ii) Vision 2021

8

(b) Explain train staff and ticket system of control of train movement.

8

(c) Enumerate and explain the features of 1<sup>st</sup> 20 year road plan (1943 – 1963).

8

AQ-2814

P.T.O.

3. Attempt any Two :—

- (a) Explain the working principles of automatic train control system. 8
- (b) Explain with neat sketches, the various markings on runway. 8
- (c) State and explain various factors on which locations of exit taxiway depends. 8

4. Attempt any Two :—

- (a) What are the various landing aids for aircraft ? Explain ILS its components with neat sketch. 8
- (b) Give the sequence of activities of passenger at a modern Airport terminal building ? 8
- (c) Explain with neat sketch Aircraft parking system. 8

5. Attempt any Two :—

- (a) Explain the concept of containerization and cargo handling. 8
- (b) Explain the working principles of Inland water ways. 8
- (c) Explain with neat sketch. :—
  - (a) Triclinic layout of port.
  - (b) Digital layout of port. 8

6. Attempt any Two :—

- (a) Enumerate the urban transportation problems. 8
- (b) State the objectives of personal rapid transit system and intermediate public transport. 8
- (c) What are the objectives and requirements of demand responsive transit system. 8

