

F 3442

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Reg. No.....

Name.....

B.TECH. DEGREE EXAMINATION, NOVEMBER 2014

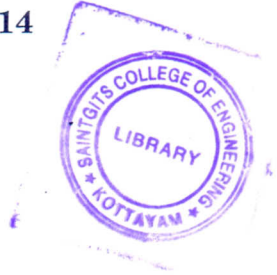
Seventh Semester

Branch : Civil Engineering

TRANSPORTATION ENGINEERING—II (C)

(Old Scheme—Prior to 2010 Admissions)

[Supplementary/Mercy Chance]



Time : Three Hours

Maximum : 100 Marks

Part A

Answer all questions.

Each question carries 4 marks.

1. Explain about classification of highways.
2. Explain the functions of Camber provided on highways.
3. Explain about channelization.
4. Write notes on highway lighting.
5. Explain joints in concrete pavements.
6. Basic difference between flexible and rigid pavements.
7. Explain airport classification.
8. Briefly explain use of windrose diagrams.
9. Explain use of blast fences.
10. Write notes on landing aids at airports.

(10 × 4 = 40 marks)

Part B

Answer all questions.

Each question carries 12 marks.

11. Explain requirements and Factors controlling alignment of roads.

Or

12. Explain terms :
 - (a) Super elevation and methods of attaining it.
 - (b) Summit and valley curves.

(2 × 6 = 12 marks)

Turn over

13. Explain various traffic characteristics.

Or

14. Explain about Traffic control devices.

15. Explain briefly various properties and test on Bituminous materials.

Or

16. Explain briefly types and causes of failures in flexible pavements.

17. Explain :

(a) Approach zone and turning zone.

(b) Taxiway design requirements.

(2 × 6 = 12 marks)

Or

18. Explain briefly Runway Orientation.

19. Write notes on :

(a) Aircraft parking systems.

(b) Loading aprons.

(2 × 6 = 12 marks)

Or

20. Explain briefly :

(a) Lighting of runways approaches.

(b) Air traffic control.

(2 × 12 = 12 marks)

[5 × 12 = 60 marks]

