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BOARD DIPLOMA EXAMINATION
MARCH/APRIL - 2019
 * **DIPLOMA IN CIVIL ENGINEERING**
TRANSPORTATION ENGINEERING
FOURTH SEMESTER EXAMINATION

Time: 3 Hours

Total Marks: 80

PART - A (3m x 10 = 30m)

Note 1: Answer all questions and each question carries 3 marks

2: Answers should be brief and straight to the point and shall not exceed 5 simple sentences

1. Define camber. State three reasons for providing it
2. What are the advantages of Roads
3. State any three objects of reconnaissance survey
4. What are the advantages of cement concrete road?
5. What is meant by permanent way?
6. Distinguish between way side station and Junction
7. Explain the defect of blowing joint in rail track
8. Write any three advantages of a through bridge
9. Distinguish between Bridge and culvert
10. Distinguish between Economical span and Afflux

PART - B (10m x 5 = 50m)

Note 1: Answer any five questions and each carries 10 marks

* *2: The answers should be comprehensive and the criteria for valuation is the content but not the length of the answer*

11. How the roads are classified in India? What is the necessity of classifying roads in this manner. Describe them in brief
12. What are the various controlling factors that will influence the alignment of road?
13. Explain with sketches the types of road intersections
14. Draw the typical C/S of road in embankment and cutting and label the parts.

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15. (a) Explain how the W.B.M roads are maintained
- (b) Explain how the surface dressing is done on existing water bound macadam road
16. (a) Draw a neat sketch of Bull Headed rail fixed to a wooden sleeper and label the component parts.
- (b) Write different types of spikes and what are their objects.
17. (a) Illustrate with a neat sketch the layout of a way side station on a single line B.G track.
- (b) State the methods of laying track and explain telescopic method of plate laying.
18. (a) State the classification of bridges
- (b) State any six factors influencing selection of site for a bridge.

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