

# BITT POLYTECHNIC, RANCHI

## DEPARTMENT OF CIVIL ENGINEERING

### *Question Set-4 Transportation Engineering*

Date:-02/04/2020

#### A. Objectives Questions:

1. Which of the following represent a carpet of sand bitumen mix without course aggregate?  
A. Mastic asphalt. B. Sheet asphalt. C. Bituminous carpet. D. Bituminous concrete
2. Horizontal curve 480 m, for 7.5 metre to line road is to be designed for a speed of 80 kmph. The raising of outer edge of the pavement with respect to inner edge is  
A. 0.14m. B. 0.22 m. C. 0.24m. D. 0.27m
3. As per IRC maximum load of axle of a vehicle should not exceed  
A. 8165 kg. B. 9500 kg. C. 800 kg. D. 7500 kg
4. The mechanical widening of single Lane road of a horizontal curve of radius hundred for vehicle wheelbase of 3 metre is  
A. 0.025m. B. 0.032 m. C. 0.045m. D. 0.085m.
5. Safe stopping distance for vehicle moving at 60 kmph is 50 m and average length of vehicle is 5 metre then find basic capacity of roadway  
A. 700. B. 1200. C. 1090. D. 1872
6. For a sandy soil the most common method of stabilization is  
A. Soil cement stabilization. B. Mechanical stabilization.  
C. Soil lime stabilization. D. Soil bitumen stabilization
7. The drain which provided parallel to roadway to intercept and divert the water from hill slopes is called  
A. Sloping drain. B. Catch water drain. C. Side drain. D. Cross drain.
8. Reflection cracking is observed in



3. Explain the soundness test of aggregate?
4. Write a note on shape test?
5. Write a short note on specific gravity and water absorption test?