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### 1. Nagpur road plan formula were prepared by assuming

- a) rectangular or block road pattern
- b) radial or star and block road pattern
- c) radial or star and circular road pattern
- d) radial or star and grid road pattern

Ans: d

### 2. Select the correct statement.

- a) Nagpur road plan formula take into account the towns with very large population.
- b) Nagpur road plan has a target road length of 32 km per 100 square km.
- c) Second 20-year plan has provided 1600 km of expressways out of the proposed National highway.
- d) Second 20-year plan allowed deduction of length of railway track in the area while calculating the length of roads.

Ans: c

### 3. The sequence of four stages of survey in a highway alignment is

- a) reconnaissance, map study, preliminary survey and detailed survey
- b) map study, preliminary survey, reconnaissance and detailed survey
- c) map study, reconnaissance, preliminary survey and detailed survey
- d) preliminary survey, map study, reconnaissance and detailed survey

Ans: c

### 4. The shape of the camber, best suited for cement concrete pavements, is

- a) straight line
- b) parabolic
- c) elliptical
- d) combination of straight and parabolic

Ans: a

### 5. For water bound macadam roads in localities of heavy rainfall, the recommended value of camber is

- a) 1 in 30
- b) 1 in 36
- c) 1 in 48
- d) 1 in 60

Ans: b

### 6. The stopping sight distance depends upon

- a) total reaction time of driver
- b) speed of vehicle
- c) efficiency of brakes
- d) all of the above

Ans: d

### 7. When the path travelled along the road surface is more than the circumferential movement of the wheels due to rotation, then it results in

- a) slipping
- b) skidding
- c) turning
- d) revolving

Ans: b

### 8. Coefficient of friction is less when the pavement surface is

- a) rough
- b) dry
- c) smooth and dry
- d) smooth and wet

Ans: d

### 9. The shoulder provided along the road edge should be

- a) rougher than the traffic lanes
- b) smoother than the traffic lanes
- c) of same colour as that of the pavement
- d) of very low load bearing capacity

Ans: a

**10. Camber in the road is provided for**

- a) effective drainage
- b) counteracting the centrifugal force
- c) having proper sight distance
- d) none of the above

Ans: a