

## Highway Engineering Mcq Questions and Answers

1) State modes of transportation

(A) Roads or Highways

(B) Railways

(C) Waterways

(D) Airways

(E) All of the above **Answer**

2) Classify the roads according to Nagpur Road Development plan

(A) National Highway (NH)

(B) State Highway (SH)

(C) Major District Road (MDR)

(D) Other District Road (ODR)

(E) All of the above **Answer**

3) Types of Surface Drainage:

(A) Cross Drains

(B) longitudinal drain

(C) Catch water basin **Answer**

(D) transverse drain

4) Enlist types of traffic islands

(A) Channelized Intersections

(B) Divisional Island.

(C) Pedestrians Loading Islands

(D) Roundabouts or Rotaries

(E) All of the above **Answer**

5) State causes of landslides

- (A) Improper drainage system
- (B) Increase in the water content of the soil
- (C) Undermining caused by erosion or extraction
- (D) Vibration and shocks caused by blasting or earthquakes
- (E) All the above **Answer**

6) State requirements of a Ideal road alignment

- (A) The road should be such that the slope and curves are easy
- (B) The alignment should be safe for traffic operation.
- (C) It should provide the economy with the cost of construction and maintenance.
- (D) ) The road should connect important points like school, places of tourist's importance etc
- (E) All of the above **Answer**

7) Requirements of Stone in highway construction

- (A) It should contain sharp, angular, coarse and durable grains.
- (B) For a good stone, the crushing strength should be more than 100 N/mm<sup>2</sup>
- (C) It should be durable i.e. it should resist atmospheric action and should be long lasting
- (D) Both (c) & (d) **Answer**
- (E) None of the above

8) Types of Subsurface:

- (A) lateral drain **Answer**
- (B) Catch water basin
- (C) Side drains
- (D) Inlet

9) Types of gradient.

- (A) Limiting gradient
- (B) Ruling gradient
- (C) Average gradient
- (D) Exceptional gradient
- (E) All of the above **Answer**

10) Merits of WBM roads

- (A) The maintenance cost is more.
- (B) If in good condition, it can take a composite traffic of about 900 tonnes per lane per day. **Answer**
- (C) Life is less
- (D) They are permeable to rain water and it leads to the softening and yielding of materials

11) Demerits of WBM

- (A) Their initial cost is low
- (B) If not maintained properly, then it causes inconvenience and danger to traffic **Answer**
- (C) If WBM surfacing is maintained properly, it is found to have good service for a long-time.
- (D) They make use of the locally available materials.

12) State preventive measures of landslides in hilly roads

- (A) By stone pitching
- (B) By providing soil stabilization
- (C) By providing nets.
- (D) All of the above **Answer**
- (E) None of the above

13) State the requirement of good quality material which plays the major role in highway construction

- (A) Soil
- (B) Bitumen
- (C) Cement

(D) All of the above **Answer**

(E) None of the above

14) The sign represents



(a) No Stopping or standing **Answer**

(b) Stop

(c) Junction

15) The following sign represents..



(a) Narrow road ahead **Answer**

(b) Roads on both sides ahead

(c) Narrow bridge ahead

### State Whether the following statements are True or False

16) Traffic Volume is the number of vehicles moving in a specified direction on a given lane or roadway that pass a given point or cross section during specified unit of time

(A) True **Answer**

(B) False

17) In Alignment of hill roads Slope/Gradient is less

(A) True

(B) False **Answer**

**Reason:** In Alignment of hill roads Slope/ gradient is more

18) In Alignment of plain roads There is not much problem of landslides.

(A) True **Answer**

(B) False

19) The portion of roadway constructed for movement of vehicular traffic is called carriageway.

(A) True **Answer**

(B) False

20) The area of the land acquired for construction and development of a road along its alignment is known as Kerb.

(A) True

(B) False **Answer**

The boundaries between the pavement and shoulders and footpaths are known as Kerb.

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