

Highway Engineering Mcq Questions and Answers

1) Requirements of Soil in highway construction

- (A) It should be clean and coarse
- (B) It should be free from any organic or vegetable matter
- (C) There should be adequate affinity and adhesion between the bitumen and aggregates used in the mix.
- (D) Both (a) & (b) **Answer**

2) Requirements of Cement in highway construction

- (A) Cement should give smooth feeling when rubbed between two fingers
- (B) Cement should give a cool feeling when hand is thrust into the cement bag
- (C) The color of the cement should be greenish grey
- (D) There should not be presence of lumps
- (E) All of the above **Answer**

3) Requirements of Concrete in highway construction

- (A) It should be chemically inert.
- (B) It should be dense and compact **Answer**
- (C) It should contain sharp, angular, coarse and durable grains.
- (D) It should be clean and coarse

4) Requirements of Sand in highway construction

- (A) It should not contain salts which attract moisture from the atmosphere. **Answer**
- (B) It should have minimum shrinkage.
- (C) It should be resistant to fire.

(D) It should have enough compressive strength.

5) State the necessity of Good drainage

(A) It is also required to carry sub surface water away from sub layers in heavy rainfall regions

(B) It is beneficial to minimize landslides and related undesirable effects.

(C) It also results in a good durable road with lesser maintenance as well.

(D) It increases load carrying capacity due to dry condition and maintained density of sub layers

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

6) Classification of highway maintenance

(A) Routine repairs

(B) Periodic repairs

(C) Special repairs

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

(E) None of the above

7) List factors affecting passenger car units.

(A) It depends upon the factors like environmental and climatic conditions.

(B) It depends upon the factors like dimensions, power, speed, acceleration and braking characteristics.

(C) It depends upon the factors like regulations and control of traffic.

(D) It depends upon the factors like different vehicle classes.

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

8) merits of bitumen road

(A) Bitumen roads are less durable.

(B) Failure of Bitumen road is gradual. **Answer**

(C) Maintenance cost is more than cement concrete road.

(D) They have less tensile strength.

9) demerits of bitumen road

- (A) Curing time is less.
- (B) Overall life cycle cost of bitumen road is less.
- (C) They develop hydrocarbon pollution to soil **Answer**
- (D) The quick repair of the road is possible.

10) Causes of Road Accidents

- (A) Due to Drivers
- (B) Due to Pedestrians
- (C) Due to Vehicle defects
- (D) Due to Road Condition
- (E) All of the above **Answer**

11) The sign represents



- (a) Left turn Prohibited **Answer**
- (b) Overtaking prohibited through the right side
- (c) Turn left

12) The sign represents



- (a) Drive the vehicle not exceeding 50 km/hr **Answer**
- (b) drive the vehicle exceeding 50km/hr.
- (c) Drive the vehicle at 50 km/hr

State Whether the following statements are True or False

13) Traffic Density is the number of vehicles occupying a unit length of lane of roadway at a given instant usually expressed as vehicles per km

(A) True **Answer**

(B) False

14) In Alignment of hill roads Proper care has to be taken for drainage

(A) True **Answer**

(B) False

15) The rate of rise and fall along the width of road w.r.t. The vertical surface is called Gradient.

(A) True

(B) False **Answer**

Reason: The rate of rise and fall along the length of road w.r.t. The horizontal surface is called Gradient.

16) The curve in a hill road which changes its direction through an angle of 180° or so, down the hill on the same side is known as the hair pin bend curve.

(A) True **Answer**

(B) False

17) The boundaries between the pavement and shoulders and footpaths are known as right of way

(A) True

(B) False **Answer**

The area of the land acquired for construction and development of a road along its alignment is known as right of way

18) The convexity provided to the surface of the carriageway is called as camber

(A) True **Answer**

(B) False

19) The portion of the roadway between the outer edge of the pavement and inner edge of the side drain in cutting is called shoulder.

(A) True **Answer**

(B) False

20) The curves having their convexity on the outer edges of a hill road are called salient curves

(A) True **Answer**

(B) False

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