

TE_IAT3_17CV561

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Section *

A

B

USN *

1

Multiple Choice Questions- 1 Mark

Answer the multiple Choice Questions each carrying 1 mark. No negative marking

Less number of street lighting are needed at a horizontal curve. The statement is *

- True
- False

NMT and PT are the way of reducing air pollution. The statement is *

- False
- True
- Partially true as only NMT can reduce pollution
- Partially true as only PT can reduce pollution

Carbon monoxide comes due to *

- Complete combustion
- Incomplete combustion
- Cooking activity
- All

consider the following parameter related to rotary 1) Width of weaving section 2) length of weaving section 3) Proportion of weaving traffic 4) weaving angle 5) width of carriage way at entry . capacity is expressed in terms of *

- 1,2 ,3 and 4
- 1,2,3 and 5
- 1, 2 and 3
- None

A channelization island provides *

- equal entry and exit
- funnel shaped entry and wider exit
- wide entrance and funnel shaped exit
- High relative speed at entry and lower speed at exit

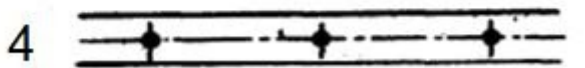
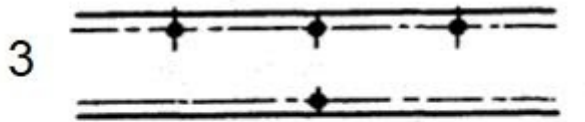
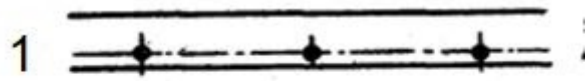
center line of a 4 lane road is *

- broken line
- 3 m long broken line with a gap of 4.5 m in between
- continuous thick line
- two thick parallel lines with a gap of 75 mm in between

Which is an example of at grade intersection *

- X junction
- underpass
- Diamond interchange
- All

Which of the following is staggered light design *



1

2

3

4

Considerable exposure of noise can cause deafness. This comes under *

- Subjective effects
- Behavioral effects
- Physiological effects
- all

Which is an effective abatement measures to reduce air pollution *

- Improve vehicle design and maintenance
- Patronage of public transport system
- Constructing bypasses and ring roads
- All

Major source of NO₂ is *

- vehicular
- domestic cooking
- industry
- none

Condition diagram is drawn to scale. the statement is *

- True
- false

Which of the following are NOT strictly needed in design of rotary intersection 1) Radius of central island 2) Weaving length 3) Ramps and interchanges 4) Acceleration lanes *

- 1 and 2
- 2 and 3
- 1 and 3
- 3 and 4

In which of the traffic signal system the cycle length and cycle division are automatically varied *

- Simultaneous system
- Alternate system
- Simple progressive system
- Flexible progressive system

"Fixed delay" in highway is due to *

- pedestrian crossing
- parked vehicle
- traffic signal
- road repairs

Multiple Choice Questions-2 marks

No negative marking. Wherever asked write the answer in separate sheet and upload as a single file in Google Classroom

Public bus transport comes under NMT. The statement is----- (Discuss various Public transport issues in a separate sheet and upload in google classroom) *

- True
- False

the full form of VMS is..... (write a short note on VMS and upload in google classroom) *

- Variable message sign
- Varying message signal
- Both
- None

The main advantage of cloverleaf intersection (discuss various types of grade separated intersection and upload in google classroom) *

- Easy design
- It requires large area
- it provides complete separation of traffic
- all the above

For most effective traffic control , adopt----- *

- more no of traffic signs
- limited no of traffic signs
- More varieties of traffic signs
- More warning and less informatory sign

The traffic conflict which may occur at a rotary----- (write the design parameters of rotary intersection and upload in google class room) *

- merging and diverging
- crossing and merging
- crossing and diverging
- crossing, merging and diverging

Ways to reduce accident are *

- by 3 E method
- by 3 G method
- Both
- None

3E's include----- (explain 3 E's in separate sheet and upload in google classroom) *

- Engineering, education and enthusiasm
- Enforcement, empowerment and eradication
- Engineering, education and expulsion
- Engineering, education and enforcement

Yellow color of a 'colored light traffic signal' indicates *

- go
- stop
- clearance
- be ready to go

Thick white and black lines of 2m to 4m long provided along the width of highways are ----- (Explain transverse road marking in separate sheet and upload in google classroom) *

- lane line
- centre line
- cycle tank
- pedestrian crossing

An advantages of traffic signal (Discuss different types of traffic signal in separate sheet and upload in google classroom) *

- no rear end collision
- easy segregation of traffic
- quick movement of vehicles
- orderly movement of vehicle

Multiple Choice Questions-5 marks

No negative marking

The average normal traffic on cross roads A and B during the design period is 425 and 185 PCV/hr. Saturation flow values estimated are 850 and 720 PCV/hr respectively. All red time for pedestrian crossing is 12 sec. The red time of Road A is----- (Design a two phase traffic signal by Webster's method in separate sheet and upload in google classroom). *

- 38 sec
- 68 sec
- 36 sec
- None

The average normal flow of traffic on cross roads A and B during design period are 400 and 250 PCU/hr, the saturation flow values on these roads are estimated as 1250 and 1000 PCU/hr respectively. The all red time for pedestrian crossing is 12 sec. The cycle time is ----- (design two phase traffic signal by Webster's method. Sketch phase diagram also and upload in google classroom). *

- 67.5 sec
- 29 sec
- 40 sec
- None

The advantage of rotary intersection is -----(List the advantages and disadvantages of rotary intersection) *

- Left turn is relatively easy
- No waiting by traffic
- Vehicle move in same direction
- None

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