TE_IAT2_17CV561

By Department of Civil Engineering, CMRIT

* Required

1. Email address *

2. Name *

3. Section *

Mark only one oval.

- A
- B

4. USN *

Multiple Choice Questions- 1 Mark

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

5. Which of the following is not a criterion for zoning *

Mark only one oval.

- zones should match other administrative divisions, particularly census zones.
- zones should have homogeneous characteristics, especially in land use, population etc.
- zone boundaries should match cordon and screen lines, but should not match major roads.
- zones should have regular geometric shape

6. Level of services are divided in *

Mark only one oval.

- 4 types
- 5 types
- 6 types
- 3 types

7. LOS A represents worst operating conditions and LOS F is the best *

Mark only one oval.

- The statement is incorrect
- The statement is correct

8. Safety is not included in LOS *

Mark only one oval.

- True
- False

9. Desire line is a one of the methods of measurement of O and D data. The statement is *

Mark only one oval.

- Correct
- False

10. Thickness of desire line represents *

Mark only one oval.

- No of trips in one direction
- No of trips in both direction
- Can be either
- None

11. Space mean speed is the *

Mark only one oval.

- arithmetic mean of speeds
- harmonic mean of speeds
- Can be both
- None

12. Condition diagram is related to *

Mark only one oval.

- O and D study
- Parking study
- Accident study
- Desire line diagram

13. Collision diagram illustrates *

Mark only one oval.

- path of vehicle and pedestrians involved in accidents
- physical conditions of the accident location.
- Origin and destination data
- None

14. Condition diagram illustrates *

Mark only one oval.

- ◯ path of vehicle and pedestrians involved in accidents
- ◯ physical conditions of the accident location.
- ◯ Origin and destination data
- ◯ None

15. In which diagram of accident analysis roadway limits, kerb lines, bridges, culverts will be illustrated *

Mark only one oval.

- ◯ Condition diagram
- ◯ Collision diagram
- ◯ Desire line diagram
- ◯ Spot diagram

16. Condition diagram is drawn to scale. the statement is *

Mark only one oval.

- ◯ True
- ◯ false

17. In Origin destination table X axis represents *

Mark only one oval.

- destination
- Origin
- Both
- None

18. In Origin destination table Y axis represents *

Mark only one oval.

- destination
- Origin
- Both
- None

19. Imaginary lines representing the boundary of study area is called *

Mark only one oval.

- Screen line
- Cordon line
- Zone line
- None

Multiple Choice Questions-2 marks

No negative marking

20. Which kind of parking taking the maximum kerb length *

Mark only one oval.

- parallel
- 30
- 60
- 90

21. Which kind of parking requires maximum width in the parking lot design *

Mark only one oval.

- parallel
- 30
- 60
- 90

22. Parking can cause *

Mark only one oval.

- congestion
- pollution
- accidents
- all the above

23. Stop sign is a *

Mark only one oval.

- warning sign
- mandatory sign
- Informatory sign
- all the above

24. One of the major objective of traffic signs include *

Mark only one oval.

- advance information for safe driving
- convey a clear, simple meaning
- Increase safety of road
- ALL

25. Ways to reduce accident are *

Mark only one oval.

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

26. 3E's include *

Mark only one oval.

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

27. Minimum and maximum speed limit on a road is *

Mark only one oval.

- 15th and 98th percentile speed
- 20th and 80th percentile speed
- 15th and 85th percentile speed
- 20th and 98th percentile speed

28. All roads are designed for *

Mark only one oval.

- 85th percentile speed
- 95th percentile speed
- 98th percentile speed
- 30th percentile speed

29. if 85th percentile speed is 60 kmph,98th percentile speed would be *

Mark only one oval.

- More than 60 kmph
- Less than 60 kmph
- Can be either
- None

Multiple Choice Questions-5 marks

No negative marking

30. From the following data, determine : a.Modal speed b.Speed limit for traffic regulation c.Speed to be used in geometric design *

Speed group, kmph	No. of vehicles observed	Speed group, kmph	No. of vehicles observed
20.0-29.99	0	60.0-69.99	60
30.0-39.99	12	70.0-79.99	38
40.0-49.99	32	80.0-89.99	27
50.0-59.99	48	90.0-99.99	15

Mark only one oval.

- Modal speed = 64kmph, Speed limit for traffic regulation = 65 kmph, Speed to be used in geometric design = 76 kmph
- Modal speed = 65 kmph, Speed limit for traffic regulation = 60 kmph, Speed to be used in geometric design = 82 kmph
- Modal speed = 65 kmph, Speed limit for traffic regulation = 76 kmph, Speed to be used in geometric design = 90 kmph
- None

31. Grouping samples of speed, a sample is represented in the given table, in which, there are a total of 363 observations grouped into class intervals of 4 kmph. Calculate (i) design speed (ii) upper speed limit *

Midpoint of speed, kmph	28	32	36	40	44	48	52	56	60	64
Number of vehicles	9	74	79	75	66	33	17	6	1	3

Mark only one oval.

- Design speed 53 kmph and Upper speed limit = 45 kmph
- Design speed 48 kmph and upper speed limit = 28 kmph
- Design speed 28 kmph upper speed limit = 48 kmph
- None

32. 4. Following data were obtained from the spot speed studies. Suggest Lower speed causing congestion

Speed Group (kmph)	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-50	50-60	60-70
No. of vehicles	230	375	500	680	525	430	290	110	25	8

Mark only one oval.

- ◯ 9 kmph
- ◯ 11 kmph
- ◯ 32 kmph
- ◯ None

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33. PDF Single File

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