Transportation Enginnering

17 Ouestions 2 Marks Each = 34 Marks

d) NHAI

16 Questions 1 Mark Each = 16 Marks Total 50 Marks		
1.	The main objective of transportation is?	
	a) Economical transport of goods	
	b) Economical transport of passengers	
	c) To generate revenue	
	d) Safe economical and efficient transport of goods and passengers	
2.	Which is the most flexible type of transportation available?	
	a) Roadway	
	b) Railway	
	c) Waterway	
	d) Airway	
3.	The transportation system that requires a low initial investment among the following is	
	a) Roadway	
	b) Railway	
	c) Harbour	
	d) Airport	
4.	The current highway development works in India are undertaken by?	
	a) NHAI	
	b) Govt. of India	
	c) State governments	
	d) NHDP	
5.	A research organization that was formed for the research and development organisation	
	works related to roads was?	
	a) Indian Roads Congress	
	b) Central Research Institute	
	c) Central road found	

6.	The first 20 year development plan is also called as?
	a) Nagpur road plan
	b) Lucknow road plan
	c) Bombay road plan
	d) Delhi road plan
7.	Primary system of roads consists of?
	a) National highway
	b) Expressway
	c) National highway and Expressway
	d) State highway
8.	The National Highway network should be expanded so that no part of a country is more
	than 50km away from NH is policy of which twenty year road development plan?
	a) 1st 20 year road development plan
	b) 2nd 20 year road development plan
	c) 3rd 20 year road development plan
	d) 4th 20 year road development plan
9.	The rectangular pattern of roads has been adopted in which Indian city?
	a) New Delhi
	b) Chandigarh
	c) Hyderabad
	d) Mumbai
10.	The equation of parabolic camber is given by
	a) Y=x/a
	b) $Y=x^2/a$
	c) $Y=x^3/a$
	d) $Y=ax^2$
11.	. The minimum width of carriage way in urban roads is
	a) 2.5m
	b) 3.0m
	c) 3.5m
	d) 3.75m

12. The desirable relationship between OSD and length of overtaking zone is	
a) Length of overtaking zone = OSD	
b) Length of overtaking zone = 2 OSD	
c) Length of overtaking zone = 3 OSD	
d) Length of overtaking zone = 5 OSD	
13. If the speed of overtaken vehicle is 80Kmph, then the design speed is	
a) 80kmph	
b) 96kmph	
c) 100kmph	
d) 106kmph	
14. If the speed of overtaken vehicle is 50kmph then spacing of vehicles is	
a) 10m	
b) 12m	
c) 14m	
d) 16m	
15. The relationship between SSD and ISD is?	
a) $SSD = ISD$	
b) $SSD = 1.5 SSD$	
c) $SSD = ISD + OSD$	
d) $SSD = 2 ISD$	
16. The super elevation is calculated for	
a) 75% of design speed including friction	
b) 80% of design speed neglecting friction	
c) 75% of design speed neglecting friction	
d) 80% of design speed including friction	
17. The ruling minimum radius in the curve is given by	
a) R=V2/127(e+f)	
b) R=V'2/127 (e+f)	
c) $R=127(e+f)$	
d) $R=127/(e+f)$	

18.	The length of wheel base usually considered in India is?
	a) 6.1m
	b) 5.9m
	c) 5.8m
	d) 5.5m
19.	An intelligent driver who consumed alcohol will have a chance of
	a) Increased alertness
	b) Increase in reaction time
	c) Increase in speed
	d) Increase in judgment
20.	The height of the vehicle mainly influences?
	a) Width of pavement
	b) Length of curve
	c) Clearance under structures
	d) Design velocity
21.	The traffic volume is usually expressed in
	a) LMV
	b) PCU
	c) LCV
	d) HCV
22.	HCV stands for
	a) Heavy commercial vehicle
	b) Heavy cash vehicle
	c) Heavy consolidated vehicle
	d) Hard commercial vehicle
23.	What is the first objective of traffic volume studies?
	a) To decide priority for improvement of roads
	b) For geometric design
	c) For computing roadway capacity
	d) To plan traffic operation

24.	The traffic that is prepared based on 365 days of the year is called?
	a) Yearly traffic
	b) Annual average daily traffic
	c) Average daily traffic
	d) Average yearly traffic
25.	The traffic design in India is based on
	a) 10th hourly volume
	b) 20th hourly volume
	c) 30th hourly volume
	d) 45th hourly volume
26.	For places where there is a passage of flood water then the highway has to be built on
	a) Embankment
	b) Subway
	c) Overpass
	d) Underpass
27.	The highest CBR number is required for
	a) Pavement
	b) Sub grade
	c) Sub base
	d) Base
28.	Bitumen is a by-product of
	a) Wood
	b) Petroleum
	c) Kerosene
	d) Coal
29.	If the load value at 2.5mm penetration in CBR is 190kg and the load for 5.0mm
	penetration is 48kg, then the CBR value at 5 mm penetration is?
	a) 4.6
	b) 4.4

	c) 4.3
	d) 4.1
30.	Impact value is used to measure?
	a) Hardness
	b) Toughness
	c) Wheel load
	d) Strength
31.	The capability of aggregate to resist more weathering action and wheel load is called
	a) Hardness
	b) Toughness
	c) Durability
	d) Angularity
32.	The crushing value of the aggregate determines its
	a) Hardness
	b) Strength
	c) Toughness
	d) Durability
33.	The bitumen is completely soluble in
	a) Carbon monoxide
	b) Carbon dioxide
	c) Carbon sulfide
	d) Carbon disulfide