

Department of Civil Engineering

CE 8604 – Highway Engineering

Unit - III - MCQ Bank

1. The surface of the highway pavement should be designed to allow
a) High rolling resistance
b) Low rolling resistance
c) No rolling resistance
d) Very high rolling resistance
Answer: (b)
2. The soil becomes weak in
a) Summer
b) Winter
c) Rainy season
d) Spring season
Answer: (c)
3. The pavement layer is considered superior if it distributes load like a
a) Point load
b) Uniformly distributed load
c) Uniformly varying load
d) Triangular load
Answer: (a)

4. Which of the following pavement has greater life?
a) Bituminous pavements
b) Cement concrete pavements
c) Gravel roads
d) Earth roads
Answer: (b)
5. Which of the following requirement is given most importance in highway design?
a) Structural
b) Functional
c) Seasonal
d) Maintenance
Answer: (a)
6. The most superior material is used ina) base
b) sub base
c) surface
d) soil
Answer: (c)
7. The soil sub grade suitable for pavement is
a) Gravel
b) Sand
c) Black cotton soil
d) Red soil
Answer: (a)

8. The drainage layer is
a) Sub grade
b) Sub base
c) Base
d) Surface
Answer: (b)
9. What is the minimum thickness of compacted sub grade?
a) 300 mm
b) 500 mm
c) 700 mm
d) 900 mm
Answer: (a)
10. The number of factors considered for flexible pavement is
a) One
b) Two
c) Three
d) Five
Answer: (d)
11. What is the most common test used in evaluating soil strength?
a) CBR
b) DCP
c) Triaxial
d) Plate bearing test
Answer: (a)
Alliswer. (a)

12. The contact pressure is given by
a) Pa
b) a/P
c)P/A
d) PA
Answer: (c)
The distribution of circular load was obtained by
13. The distribution of circular load was obtained by
a) Wester guard
b) Boussinesq
c) McAdam
d) Taylor
Answer: (b)
14. What is the last step in the design of flexible pavement?
a) Design of sub grade
b) Design of base
c) Design of mix
d) Design of the pavement thickness
Answer: (d)
15. If one or more wheels act as a single load then it is called as
a) EASEL
b) EQWL
c) EQML
d) EQVL
Answer: (a)

16. Boussinesq assumed soil as
a) Homogeneous
b) Heterogeneous
c) Rigid
d) Flexible
Answer: (a)
17. Two elastic theory was developed by
a) Boussinesq
b) Westergard
c) Burnister
d) McAdam
Answer: (c)
18. The z is a function of
a) P, a

c) P, a, z

b) P, z

d) P only

Answer: (c)

19. Boussinesq assumed the load as a

a) Point load

- b) UDL
- c) UVL
- d) Triangular load

Answer: (a)

20. The ratio of z/a=o represent the stress at
a) Top surface
b) Bottom surface
c) Middle
d) Maximum stress point
Answer: (a)
21. How many types of methods are there to design a flexible pavement?
a) One
b) Two
c) Three
d) Four
Answer: (c)
22. Empirical method is dependent on the strength of
a) Soil
b) Sub base
c) Base
d) Surface
Answer:(a)
23. The stress strain approach is used in
a) Empirical method
b) Semi empirical method
c) Theoretical
d) CBR method
Answer: (b)

24. CBR is a
a) Measure of soil strength
b) Flexible pavement design method
c) Rigid pavement design method
d) Measure of soil characteristics
Answer: (b)
25. The design charts are prepared based on
a) Climate
b) Past experience
c) Location
d) Traffic
Answer:(b)
26. What is the most commonly used overlay?
a) Flexible over rigid
b) Rigid over flexible
c) Flexible over flexible
d) Rigid over rigid
Answer:(c)
27. The average vehicles considered for pavement studies are
a) 150
b) 1500
c) 150 to 1500
d) 15000
Answer:(c)