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Q : 1) The softening point of bitumen can be determined by using:

A : Viscometer

B : Ring and ball apparatus

C : Penetrometer

D : Briquette mould

Q : 2) Limestone dust filler material is required for production

A : Wet-mix-macadam

B : Surface dressing

C : Mastic asphalt

D : Built-up-spray grout

Q : 3) Two bitumen sample B1 and B2 have softening points 45°C and 60°C respectively. Consider the following statement :

- 1. Viscosity of B1 will be higher than that of B2 at the same temperature.**
- 2. Penetration value of B1 will be lesser than that of B2 under standard conditions.**

The correct option evaluating the above statement is :

- A : Both 1 and 2 are true**
- B : 1 is false and 2 is true**
- C : Both 1 and 2 are false**
- D : 1 is true and 2 is false**

Q : 4) At high temperatures, depending upon the grades of bitumen, materials leave out volatiles that are hazardous, It is therefore essential to qualify this temperature for each bitumen grade under :

A : Ductility Test

B : Flash and fire point test

C : Viscosity Test

D : Softening point test

Q : 5) California bearing ratio is a :

A : Measure of soil strength

B : Method of soil identification

C : Measure to indicate the relative strengths of paving materials

D : Measure of shear strength under lateral confinement

Q : 6) Which of the following is NOT a limitation of the California bearing ratio (CBR) used for designing flexible pavement?

A : It is an empirical test for assessing strength of subgrade

B : Specified soaking period of 4 days may not be sufficient in some soil

C : Test cannot stress on subgrade

D : Ease and simplicity

Q : 7) Quantity of bitumen/10m² area required for first coat of surface dressing is

A : 14 kg

B : 25 kg

C : 50 kg

D : 5 kg

Q : 8) If CBR corresponding to 2.5 mm penetration is lower than that at 5.0 mm penetration

A : CBR corresponding to 2.5 mm penetration is adopted

B : CBR corresponding to 5.0 mm penetration is adopted

C : Test is repeated

D : Test is discarded

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Q : 9) Rapid curing cutbacks are produced by dissolving straight run-bitumen in

A : Naphtha

B : Kerosene

C : Diesel

D : Lubricant oil

Q : 10) For road work at exceptionally cold weather condition at high altitude, which binder can be used most effectively?

A : RC-1

B : RT-1

C : MC-2

D : RT-2

Q : 11) Match list-I with List-II and select the correct answer using the codes given below the list:

List-I	List-II
A. Penetration test	1. Overlay design
B. Ring and ball test	2. Determination of softening point
C. Ring and ball test	3. Gradation of asphalt cement
D. Benkelman beam test	4. Design of bituminous concrete mix

Code:

A : 4, 3, 2, 1

B : 2, 3, 1, 4

C : 2, 3, 1, 4

D : 3, 4, 2, 1

Q : 12) Penetration test on bitumen is used for determining its

A : Grade

B : Ductility

C : Viscosity

D : Specific gravity

Q : 13) During a CBR test, the load sustained by a remoulded soil specimen at 5.0 mm penetration is 60 kg. The CBR of the soil will be

A : 10.0%

B : 5.25%

C : 2.92%

D : 2.43%

Q : 14) In a bituminous mixture design, what is the sum of the volume of air voids and the volume of bitumen in a compacted mix called?

A : Voids filled with bitumen (VFB)

B : Volume of mix

C : Voids in the mineral aggregated (VMA)

D : Volume of air voids in the compacted mix

Q : 15) Which of the following pavement can be used, for construction on black cotton soils?

A : Flexible pavement

B : Semi-flexible pavement

C : Rigid pavement

D : Semi-rigid pavement

Q : 16) Recommended grade of tar for grouting purpose is

A : RT-1

B : RT-2

C : RT-3

D : RT-5

Q : 17) What is the standard for testing of road macadam in Aggregate impact test?

A : 18 kg, 30 cm drop, 20 blows

B : 18 kg, 35 cm drop, 15 blows

C : 14 kg, 35 cm drop, 20 blows

D : 14 kg, 38 cm drop, 15 blows

Q : 18) Which one of the following pairs is not correctly matched for bitumen properties:

A : Softening point – Between 35°C to 70°C

B : Specific gravity of pure bitumen – 0.97 to 1.02

C : Pure bitumen – completely soluble in carbon tetrachloride

D : Pensky marten flash point – Minimum specific is 50°C

Q : 19) Which one of the following pairs is not correctly matched?

A : Horizontal curves – super elevation

B : Origin and destination studies – desire lines

C : Loss Angeles – hardness of test aggregates

D : Soundness test – purity of bitumen

Q : 20) The maximum width of expansion joint and maximum spacing between expansion joint for rough interface layer is-

A : 2.5 cm and 160 m

B : 2.0 cm and 130 m

C : 2.5 cm and 140 m

D : 2.5 cm and 100 m

Q : 21) Consider the following statements in the context of properties of bitumen.

Statement-1 : The softening point of bitumen is the time taken by the balls in the ring-and-ball apparatus to touch the lower plate of the apparatus.

Statement-2 : Oxidation leads to softening of the bitumen.

Which of the following is CORRECT?

A : Statement-1 is TRUE and statement-2 is FALSE

B : Both statements are FALSE

C : Both statements are TRUE

D : Statement-1 is FALSE and statement-2 is TRUE

Q : 22) In 85/25 grade of bitumen, the figure of 25 represents

A : Softening point in °C

B : Melting point in °C

C : Flash point in °C

D : Penetration

Q : 23) As per IRC, in surface dressing, the quantity of bitumen used for every 10 m^2 of the surface in first coat on WBM road is

A : 17 – 19.5 kg

B : 10 – 12 kg

C : 12 – 17 kg

D : 19 – 22 kg

Q : 24) Among the following which one is not a desirable property of the subgrade soil to be used as a highway material?

A : Stability

B : Ease of compaction

C : Good drainage

D : Bitumen adhesion

Q : 25) Usually, what is the maximum permissible los angles abrasion value (%) for dense bituminous macadam?

A : 45

B : 25

C : 35

D : 55

Q : 26) As per Indian standard, the diameter (mm) and height (mm) of a CBR mould should be;

A : 150, 150

B : 150, 175

C : 175, 150

D : 175, 175

Q : 27) In revised CBR design method recommended by the IRC for the design of flexible pavement, the total thickness depends upto

A : Only CBR value pf the soil

B : The CBR value of the soil and magnitude of wheel load

C : The CBR value of the soil and cumulative standard axle loads

D : The CBR value of the soil and number of commercial vehicles passing per day

Q : 28) Spot test is used to detect

A : Impurity in bitumen

B : Cohesion in bitumen

C : Cracked bitumen

D : Softening point of bitumen

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