Assignment 9

The cut-off date for submitting this assignment has passed.

1. The process of inducing a type of oxide on the surface of aluminum to coat it is called [1 point]
   - oxidizing
   - strengthening
   - annealing
   - carburizing

No, the answer is incorrect.

2. Some advantages of using aluminum in construction would be [1 point]
   - high strength–weight ratio
   - low specific weight
   - high reflectivity
   - low reflectivity

No, the answer is incorrect.

3. The main fractions of bitumens are [1 point]
   - asphaltenes
   - resins
   - oils
   - none of the above

No, the answer is incorrect.

4. Softness of bitumens is a function of [1 point]
   - temperature
   - duration of heating
   - frequency of heating
   - reflectivity

No, the answer is incorrect.

5. The tensile strength of bitumens increases with [1 point]
   - decrease in the ability to flow
   - increase in the ability to flow
   - decrease in the probability of large fences
   - increase in the orientation of molecules on the surface of the material

No, the answer is incorrect.

6. In asphalt, the load transfer is predominantly through the bitumen. [1 point]
   - True
   - False

No, the answer is incorrect.

7. The property of the asphalt to resist permanent deformation under traffic loading is [1 point]
   - stability
   - ductility
   - mobility
   - fatigue resistance

No, the answer is incorrect.

8. Asphalt pavement is more susceptible to [1 point]
   - cracking at lower temperatures
   - cracking at higher temperatures
   - rutting at lower temperatures
   - rutting at higher temperatures

No, the answer is incorrect.

9. Asphalt pavement has a cracking index of [1 point]
   - high
   - moderate
   - low

No, the answer is incorrect.

10. The process that occurs due to traffic over a well-graded base is [1 point]
    - oxidation
    - precipitation
    - weathering
    - hydrolysis

No, the answer is incorrect.

11. The substances used to enhance the aggregate-bitumen bonding and bond stability of asphalt pavements are [1 point]
    - fillers
    - antiaging agents
    - antioxidants
    - polymer modifiers

No, the answer is incorrect.

12. Assignment Answers
    - oxidizing
    - strengthening
    - annealing
    - carburizing
    - high strength–weight ratio
    - low specific weight
    - high reflectivity
    - low reflectivity
    - asphaltenes
    - resins
    - oils
    - none of the above
    - temperature
    - duration of heating
    - frequency of heating
    - reflectivity
    - decrease in the ability to flow
    - increase in the ability to flow
    - decrease in the probability of large fences
    - increase in the orientation of molecules on the surface of the material
    - True
    - False
    - stability
    - cracking at lower temperatures
    - cracking at higher temperatures
    - rutting at lower temperatures
    - rutting at higher temperatures
    - high
    - moderate
    - low
    - oxidation
    - precipitation
    - weathering
    - hydrolysis
    - fillers
    - antiaging agents
    - antioxidants
    - polymer modifiers