

ENGINEERING SURVEYING BOARD EXAM

PRACTICE PROBLEMS WITH ANSWERS

PROBLEM 1:

A series of interconnected or interlaced cracks caused by fatigue failure of the asphalt concrete surface under repeated traffic loading is called:

Answer : Alligator cracking

PROBLEM 2:

The spiral easement curve has a length of spiral equal to 80 m and the radius of the central curve of the spiral curve is 192.84 m. Compute the deflection angle at the end point of the spiral.

Answer : 3.96°

PROBLEM 3:

The area bounded by the waterline of a reservoir and the contours at an interval of 1.7 m. are as follows: $A_1 = 15,430 \text{ m}^2$; $A_2 = 12,980 \text{ m}^2$, $A_3 = 10,650 \text{ m}^2$, $A_4 = 8,540 \text{ m}^2$, $A_5 = 5,270 \text{ m}^2$, and $A_6 = 2,180 \text{ m}^2$. Calculate the volume of the reservoir by prismoidal formula in cu.m.

Answer : $V = 78,911.17 \text{ m}^3$

PROBLEM 4:

In 1985, the magnetic bearing of line AB was $N. 16^\circ 40' W.$ and the magnetic declination at that time was $1^\circ 15' E.$ If the secular variation per year is $03'E.$ what would be the magnetic bearing of the line in 1998?

Answer : $N 15^\circ 25' W$

PROBLEM 5:

A student recorded the following repeated paces of a given line: 456, 448, 462, 447,

452, 455. If his pace factor is 0.628 m/pace, what is the approximate length of line in meters?

Answer : 284.69 m.

PROBLEM 6:

Find the area of the given traverse field notes

Line	N.Lat	S.Lat	E.Dep	W.Dep
AB	667.6559			117.7135
BC		166.1987	593.2249	
CD	131.0224		678.3546	
DE		759.9430		192.0387
EA	127.4635			961.8273

Answer : $A = 16.18 \text{ acres}$

PROBLEM 7:

The cross-sectional area of a road with width of 10 m is 42.9 square meters. The cross-sectional area is as follows:

$$\begin{array}{ccc} \frac{9.8}{2.4} & \frac{0}{x} & \frac{7.4}{1.2} \end{array}$$

Determine the value of x.

Answer : $x = + 3.94$

PROBLEM 8:

Progressive disintegration of the surface between the wheel paths caused by the dripping of gasoline or oil from vehicles is known as:

Answer : Drip track raveling

Engineering Surveying Solved Problems With Answer

Rachel Sandford



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