

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: A1 = 15,430 m²; A2 = 12,980 m², A3 = 10,650 m², A4 = 8,540 m², A5 5,270 m², and A6 = 2,180 m². Calculate the volume of the reservoir by prismoidal formula in cu.m.

Answer : V =78,911.17 m³

PROBLEM 4:

In 1985, the magnetic bearing of line AB was N. 16°40' W. and the magnetic declination at that time was 1°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°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 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:

$$\frac{9.8}{2.4} = \frac{0}{x} = \frac{7.4}{1.2}$$

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

SJ Ball



Engineering Surveying Solved Problems With Answer:

Unveiling the Energy of Verbal Beauty: An Psychological Sojourn through **Engineering Surveying Solved Problems With Answer**

In a world inundated with monitors and the cacophony of immediate interaction, the profound energy and psychological resonance of verbal artistry usually disappear into obscurity, eclipsed by the regular barrage of sound and distractions. However, nestled within the lyrical pages of **Engineering Surveying Solved Problems With Answer**, a fascinating work of fictional splendor that impulses with natural emotions, lies an wonderful journey waiting to be embarked upon. Published by way of a virtuoso wordsmith, this magical opus instructions visitors on an emotional odyssey, gently revealing the latent potential and profound impact stuck within the complicated web of language. Within the heart-wrenching expanse with this evocative evaluation, we will embark upon an introspective exploration of the book is central subjects, dissect its interesting publishing design, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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