

NAME: _____

HAIR ANALYSIS Review & Reinforcement

Directions: Answer the questions below.

1. What are the 3 parts of the hair shaft?

The hair consists of the cuticle, cortex, and medulla.

2. An investigator is excited to find a hair with the follicle attached when searching for evidence at a crime scene. Explain why the investigator might be excited. Hair follicles are class evidence and they can be used to identify suspects.

3. What growth cycle does hair go through?

Anagen is a growth that grows hair to strength.

4. Describe the functions of the 3 parts of the hair shaft.

5. List 3 characteristics of the macroscopic properties of hair. List 3 characteristics of the microscopic properties of hair.

6. If hair grows at a rate of approximately 1/2 inch per day, how many days does a hair from growing if it measures 4 1/2 inch from follicle to tip?

9 days
4 1/2 inch / 1/2 inch per day = 9 days

7. Describe the following nuclei for the following hairs. What structures would the hair be based on section.

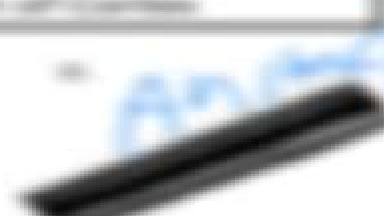
ANAGEN
CUTICLE
CORTIS
MEDULLA



Medulla diameter
Cortex diameter
Cuticle diameter
Medulla diameter



Medulla diameter
Cortex diameter
Cuticle diameter
Medulla diameter



Medulla diameter
Cortex diameter
Cuticle diameter
Medulla diameter



Medulla diameter
Cortex diameter
Cuticle diameter
Medulla diameter

12 3 Reinforce And Review

Leonard Church Urquhart



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Applied Mechanics Reviews, 1992 **Focus on Earth Science**, 2001 A Review of the Literature of Reinforced Concrete Leon Solomon Moisseiff, 1909 Short-Term and Long-Term Behaviour of Reinforced Self-Compacting Concrete Structures Farhad Aslani, 2014-06-24 Volume is indexed by Thomson Reuters BCI WoS Self Compacting Concrete SCC refers to a highly flow able non segregating concrete that can be spread into place fill the formwork and encapsulate the reinforcement without the aid of any mechanical consolidation SCC is regarded as one of the most promising developments in concrete technology due to significant advantages over Conventional Concrete CC In this study cracking caused by external loads in reinforced SCC and FRSCC slabs is examined experimentally and analytically The mechanisms associated with the flexural cracking due to the combined effects of constant sustained service loads and shrinkage are observed One of the primary objectives of this study is to develop analytical models that accurately predict the hardened mechanical properties of SCC and FRSCC Subsequently these models have been successfully applied to simulate time dependent cracking of SCC and FRSCC one way slabs **Earth Science**, 2001 **Railway and Engineering Review**, 1893 *Railway Review*, 1893

The Architectural Review, 1962 *Simulation of 12 High Geosynthetic Reinforced Retaining Walls Under Surcharge Loading by Centrifuge Testing* James M. Klammer, 1998 Thirteen centrifuge model tests on geosynthetic reinforced retaining walls were conducted These tests were designed to determine the effects of backfill type reinforcement shape length and degree of saturation on displacement and mode of failure under surcharge loading The backfill types are sand silty clay recycled asphalt and sand clay materials Material analysis for the sand and clay soils is obtained **A Treatise on Concrete, Plain and Reinforced** Frederick Winslow Taylor, Sanford Eleazer Thompson, 1912 *A treatise on Concrete Plain And Reinforced* Frederick W. Taylor M.E., Sc.D Sanford E. Thompson, S., 1916 Reviews in Inorganic Chemistry, 2008 **Dictionary Catalog of the Research Libraries of the New York Public Library, 1911-1971** New York Public Library. Research Libraries, 1979 **Microcomputer Keyboarding and Document Processing** Jack E. Johnson, 1996 Everything you need for effective keyboarding instruction is here in one complete program The highly acclaimed 150 lesson student text combined with all in one courseware and a wide selection of classroom resources provides the effective instruction your students need for tomorrow's workplace **Railway and Engineering Review**, 1901 **Elementary Reinforced Concrete Building Design ...** Leonard Church Urquhart, 1915 **Ninth International Congress on the Chemistry of Cement, New Delhi, India, 1992**, 1992 **Symposium on Standards for Filament-wound Reinforced Plastics** Committee D-20 Staff, Symposium on Standards for Filament-Wound Reinforced Plastics, 1963 **Assessment of Hoop Strains in the Flexural Plastic Hinge Region of Typical Bridge Columns** Yael D. Hose, 2001 The authors investigate hoop strain levels for various bridge columns that were measured in laboratory experiments The objective was to determine how realistic these hoop strain levels are based on current design approaches Focus was on the plastic hinge zone

of the ductile columns Results indicated that expected hoop strain levels at the design ductility of typical bridge columns are still well below the reduced strain capacity levels of stick welded hoops Included in this research project was the development of a method to allow for the quick assessment of other questionable confined columns to determine the amount of transverse steel required to prevent weld failure

Standardized Square Footings of Reinforced Concrete Lewis Albert Hicks, 1915

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