

Molecular Biology Final Exam (Set A)

(Spring 2009)

Instructors: Profs. JY Yang and Y. Tao

(Note : 4 points/each)

1. Which of the following types of RNAs is thought to play a catalytic role in protein synthesis?
- a. rRNA
 - b. mRNA
 - c. tRNA
 - d. snRNA

Answer: A

2. Which of the following statements about macromolecular assemblies is NOT true?
- a. They contain one very large polypeptide.
 - b. They can exceed one MDa in mass.
 - c. They can be 30-300 nm in size.
 - d. They can contain nucleic acids in addition to amino acids.

Answer: A

3. Which of the following methods can separate particles on the basis of density?
- a. centrifugation
 - b. ion-exchange chromatography
 - c. SDS polyacrylamide gel electrophoresis
 - d. affinity chromatography

Answer: A

4. Which of the following is NOT true about each of the 20 different aminoacyl-tRNA synthetases
- a. links an amino acid to the 3' terminus of a tRNA molecule.
 - b. recognizes multiple amino acids.
 - c. requires ATP to catalyze reactions.
 - d. sometimes make mistakes.

Answer: B

5. DNA replication
- a. requires a DNA template, deoxynucleotides, primers, and DNA polymerase.
 - b. requires the addition of deoxynucleotides to the 5' free hydroxyl group.
 - c. occurs on only 1 strand of DNA.

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