

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.

Molecular Biology Exam

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700 ASCP Molecular Biology Practice Questions to Know Before Test Day L. Coleman, J.

Buckingham, Clintt C. Adams, 2021-07 This book contains 700 selected questions and detailed answers that cover the most highly tested concepts on the MB ASCP BOC molecular science based examination With healthcare fields such as molecular technology molecular diagnostics and research becoming the fastest growing fields in the healthcare industry in the United States students and professionals looking to enter and grow in the field need a great resource to study for their basic and advanced certification examinations Testcove Prep Books has prepared this optimized preparatory book for those who want to achieve their highest potential scores on test day The certification examination is administered using the format of computer adaptive testing Are you ready for the test Recent test takers who have used this book highly recommend it Get a copy of this book and study with confidence knowing that you have made the right decision and on the right track to achieve your best scores on test day

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