

Code No: 07A42303

R07

Set No. 2

II B.Tech II Semester Examinations, APRIL 2011
MOLECULAR BIOLOGY
Bio-Technology

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Describe the processes and role of different components in the chain elongation and chain termination steps of protein synthesis. [16]
2. Describe the structure of t-RNA and give its functional role in protein biosynthesis. [16]
3. Does intervening sequences have any protein coding sequences? If so which type of proteins produced due to them? What are their functions? [16]
4. What is the evidence that an mRNA exporter directs mRNPs through the nuclear pores? Give evidence with reference to the vertebrate system. [16]
5. Write on:
 - (a) M13 DNA synthesis
 - (b) ϕ X174 DNA synthesis
 - (c) Single strand binding proteins
 - (d) Dna A protein. [4×4]
6. Correlate DNA damage with carcinogenesis. [16]
7. Discuss the procedure of preparation of nucleic acids from tissues and how are they characterized using chemical procedures? [16]
8. How telomeres are related to carcinogenesis? [16]

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Set No. 4

II B.Tech II Semester Examinations, APRIL 2011
MOLECULAR BIOLOGY
Bio-Technology

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Describe the structure of t-RNA and give its functional role in protein biosynthesis. [16]
2. What is the evidence that an mRNA exporter directs mRNPs through the nuclear pores? Give evidence with reference to the vertebrate system. [16]
3. Discuss the procedure of preparation of nucleic acids from tissues and how are they characterized using chemical procedures? [16]
4. Write on:
 - (a) M13 DNA synthesis
 - (b) ϕ X174 DNA synthesis
 - (c) Single strand binding proteins
 - (d) Dna A protein. [4×4]
5. Describe the processes and role of different components in the chain elongation and chain termination steps of protein synthesis. [16]
6. Does intervening sequences have any protein coding sequences? If so which type of proteins produced due to them? What are their functions? [16]
7. Correlate DNA damage with carcinogenesis. [16]
8. How telomeres are related to carcinogenesis? [16]

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R07

Set No. 1

II B.Tech II Semester Examinations, APRIL 2011

MOLECULAR BIOLOGY

Bio-Technology

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. What is the evidence that an mRNA exporter directs mRNPs through the nuclear pores? Give evidence with reference to the vertebrate system. [16]
2. Correlate DNA damage with carcinogenesis. [16]
3. Describe the processes and role of different components in the chain elongation and chain termination steps of protein synthesis. [16]
4. Write on:
 - (a) M13 DNA synthesis
 - (b) ϕ X174 DNA synthesis
 - (c) Single strand binding proteins
 - (d) Dna A protein. [4×4]
5. How telomeres are related to carcinogenesis? [16]
6. Discuss the procedure of preparation of nucleic acids from tissues and how are they characterized using chemical procedures? [16]
7. Does intervening sequences have any protein coding sequences? If so which type of proteins produced due to them? What are their functions? [16]
8. Describe the structure of t-RNA and give its functional role in protein biosynthesis. [16]

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Set No. 3

II B.Tech II Semester Examinations, APRIL 2011
MOLECULAR BIOLOGY
Bio-Technology

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Describe the structure of t-RNA and give its functional role in protein biosynthesis. [16]
2. Does intervening sequences have any protein coding sequences? If so which type of proteins produced due to them? What are their functions? [16]
3. Correlate DNA damage with carcinogenesis. [16]
4. How telomeres are related to carcinogenesis? [16]
5. Describe the processes and role of different components in the chain elongation and chain termination steps of protein synthesis. [16]
6. Write on:
 - (a) M13 DNA synthesis
 - (b) ϕ X174 DNA synthesis
 - (c) Single strand binding proteins
 - (d) Dna A protein. [4×4]
7. Discuss the procedure of preparation of nucleic acids from tissues and how are they characterized using chemical procedures? [16]
8. What is the evidence that an mRNA exporter directs mRNPs through the nuclear pores? Give evidence with reference to the vertebrate system. [16]
