R07

Set No. 2

## II B.Tech I Semester Examinations, November 2010 CELL BIOLOGY Bio-Technology

Time: 3 hours Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks

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- 1. Discuss various transport systems adopted by prokaryotic cells. Which molecules utilize these systems. [16]
- 2. (a) Mention two differences between endocrine and synaptic signaling.
  - (b) Explain their mechanism of action using suitable diagrammatic representation [6+10]
- 3. List some generalized functions of cytoskeleton. Illustrate with diagram. [16]
- 4. Describe in detail the major cell cycle regulatory proteins and comment on their functions? [16]
- 5. Sketch the pathway of protein synthesis and targeting. [16]
- 6. List out the properties of cells, add an account on their structure and function.

  [16]
- 7. Explain in detail the role of maternal cytoplasmic determinants in mesoderm patterning. [16]
- 8. Explain how in a population of telomere deficient cells, the loss of p53 facilitates the development of cancer? [16]

R07

Set No. 4

## II B.Tech I Semester Examinations, November 2010 CELL BIOLOGY Bio-Technology

Time: 3 hours Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks

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- 1. (a) Mention two differences between endocrine and synaptic signaling.
  - (b) Explain their mechanism of action using suitable diagrammatic representation [6+10]
- 2. Describe in detail the major cell cycle regulatory proteins and comment on their functions? [16]
- 3. List some generalized functions of cytoskeleton. Illustrate with diagram. [16]
- 4. Sketch the pathway of protein synthesis and targeting. [16]
- 5. Explain how in a population of telomere deficient cells, the loss of p53 facilitates the development of cancer? [16]
- 6. Explain in detail the role of maternal cytoplasmic determinants in mesoderm patterning. [16]
- 7. List out the properties of cells, add an account on their structure and function.
  [16]
- 8. Discuss various transport systems adopted by prokaryotic cells. Which molecules utilize these systems. [16]

R07

Set No. 1

## II B.Tech I Semester Examinations, November 2010 CELL BIOLOGY Bio-Technology

Time: 3 hours Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks

\*\*\*\*

- 1. List some generalized functions of cytoskeleton. Illustrate with diagram. [16]
- 2. Explain how in a population of telomere deficient cells, the loss of p53 facilitates the development of cancer? [16]
- 3. (a) Mention two differences between endocrine and synaptic signaling.
  - (b) Explain their mechanism of action using suitable diagrammatic representation [6+10]
- 4. Explain in detail the role of maternal cytoplasmic determinants in mesoderm patterning. [16]
- 5. Discuss various transport systems adopted by prokaryotic cells. Which molecules utilize these systems. [16]
- 6. Describe in detail the major cell cycle regulatory proteins and comment on their functions? [16]
- 7. Sketch the pathway of protein synthesis and targeting. [16]
- 8. List out the properties of cells, add an account on their structure and function.

  [16]

R07

Set No. 3

## II B.Tech I Semester Examinations, November 2010 CELL BIOLOGY Bio-Technology

Time: 3 hours Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks

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- 1. (a) Mention two differences between endocrine and synaptic signaling.
  - (b) Explain their mechanism of action using suitable diagrammatic representation [6+10]
- 2. List some generalized functions of cytoskeleton. Illustrate with diagram. [16]
- 3. Discuss various transport systems adopted by prokaryotic cells. Which molecules utilize these systems. [16]
- 4. Describe in detail the major cell cycle regulatory proteins and comment on their functions? [16]
- 5. Explain in detail the role of maternal cytoplasmic determinants in mesoderm patterning. [16]
- 6. Sketch the pathway of protein synthesis and targeting. [16]
- 7. List out the properties of cells, add an account on their structure and function.

  [16]
- 8. Explain how in a population of telomere deficient cells, the loss of p53 facilitates the development of cancer? [16]