Set No. 2

II B.Tech I Semester Examinations, MAY 2011 GENETICS Bio-Technology

Time: 3 hours Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks

- 1. What is the method used in karyotyping? Explain the importance of karyotyping.

 [16]
- 2. Write in detail about petite phenotype in yeast. [16]
- 3. Discuss the organization of genetic material in Drosophila? [16]
- 4. Describe the mechanism of transduction process. [16]
- 5. With respect to gene mapping explain the following terms:
 - (a) Interference & Cofficient of coincidence
 - (b) Gene order & gene distance. [8+8]
- 6. Write short notes on

Code No: 07A32304

- (a) linkage and crossing over
- (b) transduction [8+8]
- 7. What evidence led to the idea that DNA was the genetic material? Explain. [16]
- 8. Relate the potential effect of the Lyon hypothesis on the Retina of a human female heterozygous for the X-linked red-green color blindness. [16]

Set No. 4

II B.Tech I Semester Examinations, MAY 2011 GENETICS Bio-Technology

Time: 3 hours Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks

- 1. What evidence led to the idea that DNA was the genetic material? Explain. [16]
- 2. Discuss the organization of genetic material in Drosophila? [16]
- 3. Describe the mechanism of transduction process. [16]
- 4. What is the method used in karyotyping? Explain the importance of karyotyping.

 [16]
- 5. Relate the potential effect of the Lyon hypothesis on the Retina of a human female heterozygous for the X-linked red-green color blindness. [16]
- 6. Write short notes on

Code No: 07A32304

- (a) linkage and crossing over
- (b) transduction. [8+8]
- 7. With respect to gene mapping explain the following terms:
 - (a) Interference & Cofficient of coincidence
 - (b) Gene order & gene distance. [8+8]
- 8. Write in detail about petite phenotype in yeast. [16]

Set No. 1

II B.Tech I Semester Examinations, MAY 2011 GENETICS Bio-Technology

Time: 3 hours Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks

- Describe the mechanism of transduction process. [16]
 What is the method used in karyotyping? Explain the importance of karyotyping. [16]
- 3. What evidence led to the idea that DNA was the genetic material? Explain. [16]
- 4. Write in detail about petite phenotype in yeast. [16]
- 5. Write short notes on

Code No: 07A32304

- (a) linkage and crossing over
- (b) transduction. [8+8]
- 6. Discuss the organization of genetic material in Drosophila? [16]
- 7. Relate the potential effect of the Lyon hypothesis on the Retina of a human female heterozygous for the X-linked red-green color blindness. [16]
- 8. With respect to gene mapping explain the following terms:
 - (a) Interference & Cofficient of coincidence
 - (b) Gene order & gene distance. [8+8]

Set No. 3

II B.Tech I Semester Examinations, MAY 2011 GENETICS Bio-Technology

Time: 3 hours Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks

- 1. Describe the mechanism of transduction process. [16]
- 2. With respect to gene mapping explain the following terms:
 - (a) Interference & Cofficient of coincidence
 - (b) Gene order & gene distance.

[8+8]

- 3. Relate the potential effect of the Lyon hypothesis on the Retina of a human female heterozygous for the X-linked red-green color blindness. [16]
- 4. Write in detail about petite phenotype in yeast.

[16]

- 5. What evidence led to the idea that DNA was the genetic material? Explain. [16]
- 6. Write short notes on

Code No: 07A32304

- (a) linkage and crossing over
- (b) transduction.

[8+8]

- 7. What is the method used in karyotyping? Explain the importance of karyotyping.

 [16]
- 8. Discuss the organization of genetic material in Drosophila?

[16]