

Code No: 07A32305

**R07**

**Set No. 2**

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

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions  
All Questions carry equal marks

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1. Write short notes on the following.
  - (a) Microbes that cannot be cultivated in the laboratory
  - (b) Special growth requirements. [8+8]
2. What are:
  - (a) Bacterial spores and
  - (b) Elaborate the spore staining technique. [8+8]
3. Describe in detail the various steps involved in replication of lysogenic /temperate phage with illustration. [16]
4. What is taxonomic hierarchy? Describe in detail about various taxonomic ranks used in bacterial classification. [16]
5. Define eclipse period. Compare the lytic cycle with lysogenic cycle? [16]
6. Which period is the golden era of microbiology? Write major contributions involved in 20<sup>th</sup> century? [16]
7. Give an account on:
  - (a) Rabies
  - (b) Syphilis. [8+8]
8. (a) Distinguish viroids and prions.
  - (b) How do you determine the purity of viruses? [8+8]

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**R07**

**Set No. 4**

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

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions  
All Questions carry equal marks

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1. Which period is the golden era of microbiology? Write major contributions involved in 20<sup>th</sup> century? [16]
2. What is taxonomic hierarchy? Describe in detail about various taxonomic ranks used in bacterial classification. [16]
3. Write short notes on the following.
  - (a) Microbes that cannot cultivated in the laboratory
  - (b) Special growth requirements. [8+8]
4. Give an account on:
  - (a) Rabies
  - (b) Syphilis. [8+8]
5. What are:
  - (a) Bacterial spores and
  - (b) Elaborate the spore staining technique. [8+8]
6. (a) Distinguish viroids and prions.  
(b) How do you determine the purity of viruses? [8+8]
7. Define eclipse period. Compare the lytic cycle with lysogenic cycle? [16]
8. Describe in detail the various steps involved in replication of lysogenic /temperate phage with illustration. [16]

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**R07**

**Set No. 1**

II B.Tech I Semester Examinations, MAY 2011

**MICROBIOLOGY**

**Bio-Technology**

**Time: 3 hours**

**Max Marks: 80**

**Answer any FIVE Questions**  
**All Questions carry equal marks**

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1. Describe in detail the various steps involved in replication of lysogenic /temperate phage with illustration. [16]
2. Give an account on:
  - (a) Rabies
  - (b) Syphilis. [8+8]
3. What is taxonomic hierarchy? Describe in detail about various taxonomic ranks used in bacterial classification. [16]
4. Define eclipse period. Compare the lytic cycle with lysogenic cycle? [16]
5. Write short notes on the following.
  - (a) Microbes that cannot cultivated in the laboratory
  - (b) Special growth requirements. [8+8]
6. What are:
  - (a) Bacterial spores and
  - (b) Elaborate the spore staining technique. [8+8]
7. Which period is the golden era of microbiology? Write major contributions involved in 20<sup>th</sup> century? [16]
8. (a) Distinguish viroids and prions.  
(b) How do you determine the purity of viruses? [8+8]

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**R07**

**Set No. 3**

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

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions  
All Questions carry equal marks

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1. Write short notes on the following.
  - (a) Microbes that cannot be cultivated in the laboratory
  - (b) Special growth requirements. [8+8]
2. Which period is the golden era of microbiology? Write major contributions involved in 20<sup>th</sup> century? [16]
3. (a) Distinguish viroids and prions.  
(b) How do you determine the purity of viruses? [8+8]
4. What is taxonomic hierarchy? Describe in detail about various taxonomic ranks used in bacterial classification. [16]
5. Define eclipse period. Compare the lytic cycle with lysogenic cycle? [16]
6. Describe in detail the various steps involved in replication of lysogenic /temperate phage with illustration. [16]
7. Give an account on:
  - (a) Rabies
  - (b) Syphilis. [8+8]
8. What are:
  - (a) Bacterial spores and
  - (b) Elaborate the spore staining technique. [8+8]

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