Code No: R05212305 **R05** **Set No. 2**

**II B.Tech I Semester Examinations,November 2010**
**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:
   (a) Growth factors.
   (b) Aerobes.
   (c) Anaerobes.
   (d) Nutrients. [4+4+4+4]
2. Explain the replication and transcription in DNA viruses with a suitable example. [16]
3. Discuss Enrichment culture technique in identification of microorganisms [16]
4. Describe phenols, alcohols and halogens in terms of their chemical nature, mechanism of action, mode of application, common uses and effectiveness and advantages and disadvantages. [16]
5. What are working and primary stock cultures? How these cultures can be preserved. [16]
6. Discuss the general characters of domain Bacteria, with suitable examples. [16]
7. What is a virus particle or virion? How it is different from living organisms - discuss. [16]
8. Describe with suitable examples viruses of Arthropods. [16]

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Code No: R05212305 **R05** **Set No. 4**

**II B.Tech I Semester Examinations,November 2010**
**MICROBIOLOGY**
**Bio-Technology**

**Time: 3 hours** **Max Marks: 80**

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

⋆ ⋆ ⋆ ⋆ ⋆

1. Discuss the general characters of domain Bacteria, with suitable examples. [16]
2. What is a virus particle or virion? How it is different from living organisms - discuss. [16]
3. Describe phenols, alcohols and halogens in terms of their chemical nature, mechanism of action, mode of application, common uses and effectiveness and advantages and disadvantages. [16]
4. Describe with suitable examples viruses of Arthropods. [16]
5. Discuss Enrichment culture technique in identification of microorganisms [16]
6. Explain the replication and transcription in DNA viruses with a suitable example. [16]
7. Write short notes on:
   (a) Growth factors.
   (b) Aerobes.
   (c) Anaerobes.
   (d) Nutrients. [4+4+4+4]
8. What are working and primary stock cultures? How these cultures can be preserved. [16]

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Code No: R05212305 **R05** **Set No. 1**

**II B.Tech I Semester Examinations,November 2010**
**MICROBIOLOGY**
**Bio-Technology**

**Time: 3 hours** **Max Marks: 80**

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

⋆ ⋆ ⋆ ⋆ ⋆

1. Write short notes on:
   (a) Growth factors.
   (b) Aerobes.
   (c) Anaerobes.
   (d) Nutrients. [4+4+4+4]
2. What are working and primary stock cultures? How these cultures can be preserved. [16]
3. Discuss the general characters of domain Bacteria, with suitable examples. [16]
4. Describe phenols, alcohols and halogens in terms of their chemical nature, mechanism of action, mode of application, common uses and effectiveness and advantages and disadvantages. [16]
5. Discuss Enrichment culture technique in identification of microorganisms [16]
6. Explain the replication and transcription in DNA viruses with a suitable example. [16]
7. Describe with suitable examples viruses of Arthropods. [16]
8. What is a virus particle or virion? How it is different from living organisms - discuss. [16]

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Code No: R05212305 **R05** **Set No. 3**

**II B.Tech I Semester Examinations,November 2010**
**MICROBIOLOGY**
**Bio-Technology**

**Time: 3 hours** **Max Marks: 80**

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

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1. What are working and primary stock cultures? How these cultures can be preserved. [16]
2. Discuss Enrichment culture technique in identification of microorganisms [16]
3. Explain the replication and transcription in DNA viruses with a suitable example. [16]
4. Describe phenols, alcohols and halogens in terms of their chemical nature, mechanism of action, mode of application, common uses and effectiveness and advantages and disadvantages. [16]
5. Describe with suitable examples viruses of Arthropods. [16]
6. What is a virus particle or virion? How it is different from living organisms - discuss. [16]
7. Write short notes on:
   (a) Growth factors.
   (b) Aerobes.
   (c) Anaerobes.
   (d) Nutrients. [4+4+4+4]
8. Discuss the general characters of domain Bacteria, with suitable examples. [16]

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