

Nov. 2012

**BLDE UNIVERSITY**  
**PRE – Ph.D. COURSE WORK EXAMINATION**  
**Paper II : Background Paper (Microbiology)**

**Q. P. Code: 6012**

**Duration : 1 ½ Hrs**

**Max Marks : 50**

I Answer the following

5 x 2 = 10 Marks

1. Factors Leading to reemergence of Dengue fever
2. Integrated Disease surveillance programme
3. Standard Laboratory practices
4. Biosafety Cabinet
5. Vaccine for Dengue fever

II Answer **ANY FOUR** of the following

4 x 5 = 20 Marks

6. Ig M Capture ELISA
7. Real time PCR
8. Pulsed field Gel electrophoresis
9. Discuss the role of NSI in the diagnosis of Dengue fever
10. Haemagglutination Inhibition

III Answer **ANY TWO** of the following

2 x 10 = 20 Marks

11. Enumerate emerging and reemerging viral diseases. How do you investigate an outbreak of Dengue fever?
12. Classify vector borne diseases. Discuss the Pathogenesis and Lab diagnosis of Dengue Haemorrhagic fever.
13. Discuss briefly Laboratory diagnosis of viral infections.

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**Q. P. Code: 6013**

**Duration : 1 ½ Hrs**

**Max Marks : 50**

**I Answer the following**

**5 x 2 = 10 Marks**

1. Distinguish between Rickettsia and viruses
2. Biological safety Cabinet
3. Rat flea
4. Universal safety Precautions
5. Paired serum sample

**II Answer ANY FOUR of the following**

**4 x 5 = 20 Marks**

6. Real time PCR
7. Ig M Capture Elisa
8. Health care associated infections
9. Indian tick typhus
10. Shipping of infectious material

**III Answer ANY TWO of the following**

**2 x 10 = 20 Marks**

11. Enumerate the vector borne diseases. Discuss the Pathogenesis and laboratory diagnosis of scrub typhus.
12. Discuss utility of Weil -Felix test in the diagnosis of Rickettsial diseases.
13. Discuss the role of Rickettsia as agents of bioterrorism.

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**Paper II: Background Paper (Microbiology)**

**Q. P. Code: 6014**

**Duration : 1 ½ Hrs**

**Max Marks : 50**

**I Answer the following**

**5 x 2 = 10 Marks**

1. Mcfarland standards
2. Amp C beta lactamases
3. Shipping of infectious material
4. Universal safety precautions
5. Quorum sensing

**II Answer ANY FOUR of the following**

**4 x 5 = 20 Marks**

6. Virulence factors of Esch. Coli contributing to uropathogenicity
7. Liposome mediated Agglutination
8. Minimal inhibitory concentration
9. Pathogenicity islands
10. Quality control of anti microbial sensitivity testing

**III Answer ANY TWO of the following**

**2 x 10 = 20 Marks**

11. Discuss the role and significance of Biofilms in infectious disease.
12. Describe potential virulence mechanisms of Biofilms.
13. Discuss the origin of Biofilms in historical perspective as a measure of microbial survival.

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**Paper II : Background Paper (Microbiology)**

**Q. P. Code:6011**

**Duration : 1 ½ Hrs**

**Max Marks : 50**

I Answer the following

5 x 2 = 10 Marks

1. Integrated Disease surveillance programme
2. Inducible clindamycin resistance in S.aureus
3. Bio safety cabinet
4. Standard laboratory practices
5. Pathogenicity islands

II Answer **ANY FOUR** of the following

4 x 5 = 20 Marks

6. Nucleic acid based Hybridization techniques
7. Liposome mediated Agglutination
8. Pulsed field Gel electrophoresis
9. Hospital waste management
10. Quality control of antibiotic sensitivity testing

III Answer **ANY TWO** of the following

2 x 10 = 20 Marks

11. Discuss the Virulence markers of S. aureus .
12. How will you investigate an outbreak of MRSA infection in the hospital?
13. Discuss the role of antibiotic policy in the hospital to overcome drug resistance in S. aureus.