

**B.Sc. IN MEDICAL LABORATORY TECHNOLOGY
(BMLT)**

00100

Term-End Examination

June, 2017

BAHI-006 : MICRO-BIOLOGY

Time : 3 hours

Maximum Marks : 70

Note : Attempt any six questions. Q. No. 7 is compulsory.

1. Define the terms Sterilization and Disinfection. Enumerate various methods of sterilization employing *Dry Heat*. Elaborate upon the principle and working of laboratory hot air oven. How do you check its efficiency ? 2+2+5+1=10

2. Name the various methods of carrying out antibiotic susceptibility testings. Discuss the principle and detailed procedure of performing *any one* method. Comment on its interpretation. 2+6+2=10

3. Enumerate the characteristics of Family Vibrionaceae. Give the morphology, cultural and biochemical characters of *vibrio cholerae*. How do you diagnose cholera in the laboratory ? 2+4+4=10

4. Name *two* gram negative diplococci and mention the diseases produced by them. Describe the morphology, cultural and biochemical characters of meningococcus. Outline the laboratory diagnosis of acute purulent meningitis. 2+4+4=10

5. Define mycoses; enumerate deep mycoses organism causing lung infections. $2+8=10$
6. Write briefly on **any two** of the following : $5 \times 2 = 10$
- (a) Laboratory associated infections and their prevention
 - (b) Working and monitoring of laboratory autoclave
 - (c) Quality control of serology laboratory
7. Write short notes on **any four** of the following :
- (a) *Candida albicans* $5 \times 4 = 20$
 - (b) Enriched media
 - (c) Anaerobiosis
 - (d) Toxins and enzymes produced by *staphylococcus aureus*
 - (e) Cultivation of viruses in the laboratory
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