

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

00421

Term-End Examination

December, 2017

BAHI-006 : MICRO-BIOLOGY

Time : 3 hours

Maximum Marks : 70

Note : (i) Attempt any six questions.

(ii) Q.No. 7 is compulsory.

1. Define STERILIZATION and how does it differ from antiseptics. Classify the methods of sterilization and describe the principle of the autoclave. 2+4+4=10
2. Draw and label a bacterial cell. Describe in detail the structure and functions of Bacterial flagella. 5+5=10
3. Name the organism which causes Cholera. Describe its morphology and cultural characters. How is cholera diagnosed in the laboratory ? 1+3+6=10
4. Describe the morphology of Streptococcus pneumoniae (draw and label). What are the diseases it produces ? Describe its cultural characters and laboratory diagnosis. 3+2+5=10
5. Describe methods of laboratory diagnosis of Viral infections under : 2+8=10
 - (a) Specimen collection, transport.
 - (b) Diagnostic methods.

6. Write briefly on any two of the following : $2 \times 5 = 10$
- (a) Disc diffusion method of antibiotic susceptibility testing.
 - (b) *Candida albicans*
 - (c) Satellitism.
7. Write short notes on any four of the following :
- (a) *Clostridium perfringens*. $4 \times 5 = 20$
 - (b) Gram stain.
 - (c) Rota virus.
 - (d) Opportunistic fungi.
 - (e) BCG vaccine (BACILLI Calmette Guerin).
-