



NAO-003-038403 Seat No. _____

B. Voc. (MLMDT) (Sem. IV) (CBCS) Examination
March / April - 2017

**MLMDT-4.3 : Systemic Bacteriology, Mycology &
Virology**

Faculty Code : 003
Subject Code : 038403

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- Instructions :** (1) All questions are compulsory.
(2) The paper is divided in two sections.
(3) Figures on right indicate marks

SECTION – I

- 1 Answer the following questions. **20**
- (1) What is toxic shock syndrome?
 - (2) Which species of the streptococci can be transferred to an infant during delivery?
 - (3) Name the organisms which cause meningitis and gonorrhoea.
 - (4) Define BCG.
 - (5) What is Nagler's reaction?
 - (6) What are metachromatic granules?
 - (7) Which pathogenic strain of E.coli is responsible for most travel related gastrointestinal diseases?
 - (8) Which organism causes rice watery diarrhoea?
 - (9) What is woolsorter's disease?
 - (10) Define endoflagella.
 - (11) What is congenital syphilis?
 - (12) What are the two types of leptospiral infection?
 - (13) What is lytic cycle?
 - (14) What are peplomers?
 - (15) What is Ramsay Hunt Syndrome?

- (16) What is fever blister?
- (17) What is the causative agent of Burkitt's lymphoma?
- (18) What is Blastospores?
- (19) Give the name of causative agent of Pityriasis versicolor.
- (20) Which fungi cause meningitis?

SECTION – II

- 2** (a) Answer in brief : (Any 3) **3×2=6**
- (1) Define obligate anaerobes and Facultative anaerobes.
 - (2) What is Gonorrhoea?
 - (3) Morphology of *Corynebacterium diphtheria*
 - (4) What are the cultural characteristics of *Salmonella*?
 - (5) Enlist the diseases caused by *Borrelia*.
 - (6) What is parrot fever?
- (b) Answer in brief : (Any 3) **3×3=9**
- (1) Discuss about morphology and cultural characteristics of *Streptococcus*
 - (2) Discuss Treatments of *Neisseria gonorrhoea* infection
 - (3) Difference between *Bacillus anthracis* and Anthracoids
 - (4) Write a note on mechanism of action of cholera toxin
 - (5) Write about non-venereal treponemal disease in brief.
 - (6) Write the principle of Weil-Felix test
- (c) Answer in brief : (Any 2) **2×5=10**
- (1) Write in details about morphology, cultural characteristics and pathogenicity of *Staphylococcus*
 - (2) Write in detail about laboratory diagnosis of tuberculosis
 - (3) Discuss the EHEC infection
 - (4) Explain the life cycle of *Chlamydia*
 - (5) Discuss pathogenesis of Rocky Mountain spotted fever with clinical findings

- 3** (a) Answer in brief : (Any 3) **3×2=6**
- (1) Explain culture
 - (2) Enlist Non-neural vaccines for rabies infection
 - (3) Enlist clinical features of Polio virus infection
 - (4) What is Indole test?
 - (5) Enlist different superficial mycoses with the causative agents
 - (6) Germ tube test
- (b) Answer in brief : (Any 3) **3×3=9**
- (1) Inclusion bodies
 - (2) Glandular fever
 - (3) Immunoprophylaxis of Influenza
 - (4) Classify fungi on the basis of systemic classification
 - (5) Discuss pathophysiology and laboratory diagnosis of Tinea nigra
 - (6) Enlist the fungi causing opportunistic mycoses and discuss Aspergillosis in brief
- (c) Answer in brief : (Any 2) **2×5=10**
- (1) Replication of virus
 - (2) Laboratory diagnosis of herpes simplex virus infection
 - (3) Write in detail about pathogenesis of poliomyelitis
 - (4) Write a note on asexual reproduction in Fungi
 - (5) Pathophysiology and laboratory diagnosis of Mycotic mycetoma.
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