



15. BCYE medium is used to culture
 a. Mycoplasma b. *T. pallidum* c. *Gonococcus* d. HSV
16. A 37 year old woman with a history of urinary tract infections comes to the emergency department with burning on urination along with frequency and urgency. She says her urine smells like ammonia. The cause of her urinary tract infection is likely to be -
 a. *Enterobacter aerogenes* b. *Proteus mirabilis* c. *Citrobacter freundii* d. *Escherichia coli*

Madhya Pradesh Medical Science University, Jabalpur
Paper Code:- 8AM0000100381
MBBS 2nd Professional Examination 2018 (Winter Session)
Subject: Microbiology
Paper-I

Instructions:

- 1) All questions are compulsory
- 2) Draw diagrams wherever necessary for Question no. 2, 3 and 4.
- 3) Answers of Questions and Sub questions must be written strictly according to the serial order of question paper, otherwise the question shall not be valued
- 4) Do not write anything on the blank portion of the question paper. If written anything, such type of act will be considered as an attempt to resort to unfair means

Time : 2.30 Hours

Maximum Marks : 32

Q. 2. Long Answer Question

2 X 5 = 10

- a. Discuss the morphology, cultural characteristics and pathogenicity of *Vibrio cholerae*. Add a note on laboratory diagnosis of cholera.
- b. Discuss the morphology, transmission and pathogenicity of *Clostridium tetani*. Add a note on prevention of tetanus.

Q3 Short Answer Question

4 X 3 = 12

- a. Pathogenicity of *Chlamydia trachomatis*
- b. *Helicobacter pylori*
- c. Nongonococcal urethritis
- d. *Diarrhoeagenic E. coli*

Q4 Very Short Answer Question

10 X 1 = 10

- a. Enumerate complications of diphtheria
- b. Enumerate the disease caused by *Staphylococcus aureus*
- c. Enumerate α haemolytic streptococci and diseases caused by them
- d. Enumerate important biochemical characters of *Streptococcus pneumoniae*
- e. Classify atypical mycobacteria
- f. Tyndallisation
- g. Make a well labeled diagram to show structure of bacterial cell
- h. Enumerate causative agents of non venereal syphilis
- i. Enumerate 3 important transport media with their uses.
- j. Important differences between exotoxins and endotoxins

