

## Second year M.B.B.S. Examination

May - 2017

### Microbiology: Paper – II – 9675

Time: 2 Hours

Instructions:

Total Marks: 40

- (1) Answer of each section should be written in separate answer book.
- (2) Answer should be brief and to the point.
- (3) Figure to the right indicate full marks.
- (4) Draw diagram when necessary.
- (5) Illegible writing will not fetch any marks.

#### Section I

Q.1 Define complement. Describe classical complement pathway and biological functions of complement

8

Or

Define and classify Hypersensitivity. Write in detail about Type I hypersensitivity reaction

8

Q. 2 Write short notes on any Three

6

- a. IgM antibody
- b. Oral polio vaccine
- c. Monoclonal antibodies
- d. Non neural vaccines of Rabies virus

Q.3 Write short notes on any Two

6

- a. ELISA
- b. Morphology of HIV
- c. Agglutination

#### Section II

Q.4 Write morphology, culture characteristics, pathogenicity and laboratory diagnosis of Staphylococcus Aureus

8

Or

Write in detail about morphology, culture characteristics, pathogenicity and laboratory diagnosis of Salmonella Typhi

8

Q. 5 Write short notes on any Three

6

- a. Morphology of Pneumococci
- b. Pathogenicity of Escherichia coli
- c. Nonsuppurative complications of Streptococcus pyogenes
- d. Transportation media for Vibrio Cholerae

Q. 6 Write short notes on any Two

6

- a. Elek's gel precipitation test
- b. Nagler's reaction
- c. Leptomin test