

U.G. 5th Semester Examination - 2020**MICROBIOLOGY****[HONOURS]****Course Code : MB-H-CC-L-11****(Medical Microbiology)**

Full Marks : 40

Time : $2\frac{1}{2}$ Hours*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.*1. Answer the following questions : $1 \times 10 = 10$

- i) What is transient microflora of human body?
- ii) What do you mean by nosocomial infections?
- iii) What is disease forecasting?
- iv) What is a toxoid?
- v) Give an example of gastrointestinal diseases caused by bacteria.
- vi) Which mosquito spread Dengue virus?
- vii) Give example of antibiotics that inhibit cell wall biosynthesis.
- viii) What do you mean by drug resistance?

[Turn Over]

- ix) Why do some bacteria produce β -lactamase?
- x) What is probiotics?

2. Answer any **five** of the following: $2 \times 5 = 10$

- i) What are the sources of normal flora in human body?
- ii) What do you mean by the disease cycle?
- iii) Differentiate pathogenicity from virulence.
- iv) Write the causative agent of the following disease: (a) Syphilis and (b) Quartan malaria.
- v) Write the name of the vector of the following diseases: (a) Chikungunya and (b) Kala-azar.
- vi) What do you mean by antibiotic spectrum?
- vii) How is cutaneous mycoses usually prevented?

3. Answer any **four** of the following: $5 \times 4 = 20$

- i) Write briefly about the normal flora of human skin.
- ii) What is virulence? Name a neurotoxin. Differentiate exotoxin from endotoxin. $1+1+3$
- iii) Write short notes on the following: (a) Herd immunity (b) Diphtheria toxin $2\frac{1}{2}+2\frac{1}{2}$

- iv) Classify antibiotics based on their mode of action.
 - v) Write briefly on source of pathogen, mode of entry of pathogen, symptoms, prevention and control of tetanus.
 - vi) How you will assay microbial susceptibility to an antibiotic? Differentiate bacteriostatic from bactericidal antibiotics. 4+1
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