

2014

(June)

MICROBIOLOGY

Full Marks : 75

Time : 3 hours

The figures in the margin indicate full marks
for the questions

Answer **all** questions

1. Fill in the blanks: 1 × 10 = 10

- (a) The virus causing Dengue fever is transmitted by Aedes Aegypti mosquito.
- (b) Hospital linens are sterilized by _____.
- (c) Gas gangrene is caused by Clostridium perfringens.
- (d) The immunoglobulin that can cross the placental barrier is IgG.
- (e) Presence of IgM antibody in serum of a newborn indicates Vertical infection.
- (f) The Widal test is done for diagnosis of _____.
- (g) Gram stain is used to differentiate bacteria into two groups.

(Turn Over)

- (i) Hepatitis A virus is transmitted through ~~the~~ route.
- (j) The Antistreptolysin-O (ASO) test is diagnostic in ~~the~~ fever.

$8 \times 2 = 16$

2. Write briefly on *any two*:
- (a) Types of virus
 - (b) Sterilization of instruments
 - (c) Bacterial capsule

$2 \times 8 = 16$

3. Answer the following:
- (a) What is incineration?
 - (b) What is nosocomial infection?
 - (c) Name two bacteria responsible for food poisoning in man.
 - (d) Write two examples of Type II hypersensitivity reaction.
 - (e) Name two transport media.
 - (f) What is fumigation?
 - (g) What is endotoxin?
 - (h) Name two fungi causing skin infections.

4. Name the bacteria causing tuberculosis. Describe the bacteria and its laboratory diagnosis.

$1 + 3 + 4 = 8$

5. Write short notes on (*any five*)
- (a) Hook worm infection
 - (b) Malarial parasite
 - (c) Chlamydia
 - (d) AIDS virus
 - (e) Acquired immunity
 - (f) *Clostridium Tetani*

$5 \times 5 = 25$

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