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Total No. of Questions - 6] [Total No. of Printed Pages-7

M.B.B.S. II Professional Examination

MB-II/12(R)

234111

Microbiology

Paper - I

(New Course)

Time Allowed : 3 Hours *Maximum Marks : 100*

Note:1. Paper has to be attempted in 2 parts: Section A & Section B.

2. Section A is MCQ (Compulsory).

3. In Section B, Q.No. 2,4 & 6 are Compulsory. Q.No. 3 & 5 have a choice.

4. Draw Diagrams wherever relevant.

SECTION - A

1. Multiple Choice Questions **(20×1=20)**

Note: Please tick right answer in the choices give below. No marks will be given for overwriting.

1. Which of the following organism follows Koch's postulates.

- Mycobacterium leprae
- Bacillus anthracis
- Treponema palladium
- Neisseria gonorrhoeae

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2. Which of the following microscopes the object appears bright against a dark background

- Simple light microscope
- Dark ground microscope
- Compound light microscope
- Electron microscope

3. Which is an enriched media

- Selenite F broth
- Peptone water
- Mackonkey agar
- Chocolate agar

4. Phage mediated transfer of DNA from one bacterium to another is k/a.

- Transformation
- Transduction
- Transmission
- Conjugation

5. ESBL producing organisms are resistant to all except.

- All pencillins
- 3rd generation cephalosporins
- Monobactum
- Carbapenem

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6. Toll like receptor is a component of

- Innate immunity
- Acquired immunity
- Active immunity
- Passive immunity

7. Which antibody mediates mucosal immunity

- IgA
- IgG
- IgE
- IgM

8. All are agglutination reactions, except

- VDRL
- Standard agglutination test
- Widal test
- Paul Bunnel test

9. Which of the following acts as an anaphylatoxin.

- C3a
- C3b
- C4b
- C2a

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10. A positive tuberculin test is an example of

- Type I hypersensitivity
- Type II hypersensitivity
- Type III hypersensitivity
- Type IV hypersensitivity

11. In a patient with typhoid diagnosis after 15 days of onset of fever is best done by

- Blood culture
- Stool culture
- Urine culture
- Widal test

12. All of the following rickettsiae belong to spotted fever group except

- R.rickettsii
- R.conorii
- R.typhii
- R.akari

13. Malta fever is also called as

- Undulant fever
- Relapsing fever
- Rat bite fever

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14. Weil's disease is caused by

- Leptospira interrogans
- Borrelia recurrentis
- Treponema carateum
- Treponma palladium

15. Hepatitis virus that spreads by faeco-oral route

- Hepatitis A
- Hepatitis B
- Hepatitis C
- Hepatitis D

16. Which is known as Australia antigen?

- HBsAg
- HBeAg
- HBcAg
- HBV DNA

17. Traveller's diarrhea is caused by

- ETEC
- EHEC
- EPEC
- EIEC

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18. The most common viral cause of gastroenteritis

- Rotavirus
- Norwalk virus
- Adeno virus
- Hepadnavirus

19. Which of the following cestode eggs are not bile stained

- Hymenolepis nana
- Diphyllobothrium latum
- Echinococcus granulosus
- Taenia solium

20. Infective form and invasive form of Entamoeba histolytica are

- Trophozoite and quadrinucleated cyst
- Quadrinucleated cyst and trophozoite
- Both trophozoite
- Both quadrinucleated cyst

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SECTION - B

2. Discuss the medicolegal aspect of maintaining confidentiality pertaining to patient Identity on laboratory Results. (7)

3. Write notes on: (Attempt Any 3) (3×7=21)

a) Immune Tolerance.

b) Typhoid carriers.

c) Lyme disease.

d) Sub Unit Vaccine.

4. What are the modes of Transmission of health care associated pathogens? Describe the role of Hospital infection control committee. (12)

5. Describe: (Attempt any **FOUR**) (4×7=28)

a) Antimicrobials that act on the cytoplasmic membrane.

b) Nucleic acid synthesis inheritors.

c) Cold Sterilization.

d) Hypersensitivity Reactions.

e) Diagnosis of Hepatitis B virus Infection.

6. Classify the Rickettisiaceae. Discuss the laboratory diagnosis of Rickettsial infections. (12)

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