www.FirstRanker.com

Total No. of Questions - 6]

www.FirstRanker.com www.FirstRanker.6] [Total No. of Printed Pages

## M.B.B.S. II Professional Examination

MB-II/12(R)

234111

Microbiology

Paper - I

(New Course)

Time Allowed: 3 Hours

Maximum Marks: 100

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

Section A is MCQ (Compulsory).

- In Section B, Q.No. 2,4 & 6 are Compulsory. Q.No. 3 & 5 have a choice.
- Draw Diagrams wherever relevant.

## **SECTION-A**

**Multiple Choice Questions** 1.

 $(20 \times 1 = 20)$ 

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

Which of the following organism follows Koch's postulates.

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

Turn Over

800



(2) MB-II/12(R)-234111

- 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
- 4. Phage mediated transfer of DNA from one bacterium to another is k/a.
  - Transformation
  - Transduction
- C Transmission
  - Conjugation
- 5. ESBL producing organisms are resistant to all except.
  - All pencillins
    - 3rd generation cephalosporins
  - Monobactum
  - Carbapenem

[Turn Over

	www.ii.stranici.som
	(3) MB-II/12(R)-234111
6.	Toll like receptor is a component of
C	/ Innate immunity
	- Acquired immunity
	- Active immunity
	- Passive immunity
7.	Which antibody mediates mucosal immunity
C	- / IgA
	- IgG
	- IgE
	-≻ IgM
8.	All are agglutination reactions, except
_	VDRL
C	- Standard agglutination test
	- K Widal test
	- × Paul Bunnel test «
9.	Which of the following acts as an anaphylatoxin.
•	/ C3a
	- C3b
	- C4b

C2a

	(4) MR-II/12/P) 22				
10.	A positive tuberculin test is an example of				
	- Type I hypersensitivity				
C	- Type II hypersensitivity				
	- Type III hypersensitivity				
	- Type IV hypersensitivity				
11. In a patient with typhoid diagnosis after 15 days of ons of fever is best done by					
	- Blood culture				
C	- Stool culture				
	- × Urine culture				
	-/ Widal test				
12.	All of the following rickettsiae belong to spotted fever group except				
*	- R.rickettsii				
I.	R.conorii				
	- R.typhii				
	- R.akari				
13.	Malta fever is also called as				
	- Undulant fever				
1	- Relapsing fever				
7	Rat bite fever				

			(5)	MB-II/12(F	2)-234111
14.	Weil's	disease is ca			
	- L	eptospira in	iterrogans	4	
	- B	orrelia reci	urrentis		
7	- Т	reponema c	arateum		
	<b>/</b> 1	reponma pa	lladium		
15.	Hepati	itis virus tha	it spreads b	y faeco-oral rout	e
	I	Hepatitis A			*
0	- I	Hepatitis B			
	- I	Hepatitis C			
	- 1	Hepatitis D			
16.	Which	n is known a	s Australia	antigen?	
	ē/ 1	HBsAg			
C	- 1	HBeAg			
	-	HBcAg			4
	-	HBVDNA			
17.	Trave	ller's diarrh	ea is cause	d by	
		ETEC			
7		EHEC			
	1	EPEC			
		EIEC			Turn Over



		(6)	MB-II/12(R)-234111			
18.	The most common viral cause of gastroenteritis					
	/	Rotavirus				
0	-	Norwalk virus				
0	-	Adeno virus				
	-	Hepadnavirus				
19.	Which of the following cestode eggs are not bile stained					
	1	Hymenolepis nana				
C	-	Diphyllobothrium latum				
	-	Echinococcus granulosus				
	-	Taenia solium				

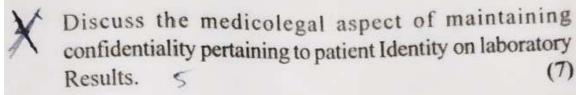
- 20. Infective form and invasive form of Entamoeba histolytica are
  - Trophozoite and quadrinucleated cyst
  - Quadrinucleated cyst and trophozoite
  - Both trophozoite
  - Both quadrinucleated cyst



(7)

MB-11/12(R)-234111

## SECTION-B



3. Write notes on: (Attempt Any 3)

 $(3 \times 7 = 21)$ 

No.

Immune Tolerance. 4 4
Typhoid carriers. 9

t "

Lyme disease.

d) Sub Unit Vaccine.



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

Describe: (Attempt any FOUR)

 $(4 \times 7 = 28)$ 

 Antimicrobials that act on the cytoplasmic membrane.



Nucleic acid synthesis inheritors.

Cold Sterilization. 3

Hypersensitivity Reactions. (5)

Diagnosis of Hepatitis B virus Infection.

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