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## **II-MBBS**

Second M.B.B.S. (Main) Examination (New Scheme) January - 2022 MICROBIOLOGY Paper-First

**Time: Three Hours** Maximum Marks: 100

Attempt all questions in both sections (Use separate answer book for each section)

### Section-A

Fill in the blanks:	6 x 1 = 06
a) Joseph Lister is known as Father of	for his contributions.
b) retinopathy is fo	und in Congenital Rubella syndrome.
c) Spirillum minus is having	
d) Slide culture technique is used in de	etection of
e)is the compleme	nt receptor present on B cell and is involved in humoral
immune response.	
f) is an ovoviviparo	us parasite.
Answer the followings (Multiple Choice	
i) Bartonella Henselae is associated w	rith all except-
a) Cat Scratch disease	b) Bacillary angiomatosis
c) Bacillary peliosis	d) Trench fever
ii) Which is helpful in the detection of	f typhoid carriers?
a) Widal b) Bile culture	c) Stool culture d) Urine culture
iii) 1-3 beta-D-glucan assay for fungi i	s not used for-
a) Aspergillus species	b) Candida species
c) Cryptococcus species	d) Pneumocystis jirovecii
iv) The hookworm thrives on-	ALTON TO A REPORT OF THE PARTY
a) Whole blood b) Plasma	c) Serum d) RBC
3. A 35-year-old female patient presente	d with Step ladder pattern of remittent fever, chills,
myalgia, Arthralgia and pain abdomen	. On examination relative bradycardia, mild
hepatosplenomegaly and rose spots w	
	gnosis along with other significant differential
diagnosis?	02



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b) Write pathogenicity caused by the organism.

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c) Write Lab diagnosis of the causative organism.

d) Immuno-Prophylaxis against the causative organism.

07 03

4. Write short notes on (Any five):

 $5 \times 2 = 10$ 

a) Contributions of Paul Ehrlich.

b) Demonstration of Spores.

- c) Automated antimicrobial susceptibility testing. d) Types of Cell Lines.
- e) Types of Monoclonal antibodies.

f) Cytokines and disease.

5. Explain briefly (Any three):

 $3 \times 5 = 15$ 

- a) Drug resistance in typhoidal salmonellae.
- b) NACO strategic algorithms of HIV.
- c) Malarial vaccine.
- d) Dimorphic fungi.

## Section-B

6 Define fever of unknown origin (FUO). Enumerate aetiologies associated with FUO. Write about Lab diagnosis of FUO along with special focus on special tests used in diagnosis of FUO.

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7. Explain briefly (Any five):

 $5 \times 2 = 10$ 

- a) New taxonomic name of clostridium difficile, Enterobacter aerogenes, Penicillium marneffei and Isospora belli.
- b) Functions of IgM antibody.
- c) Live attenuated vaccines.
- d) Complications of Falciparum malaria.
- e) Null cells.
- f) Enumerate transfusion transmitted infections.

8. Explain briefly (Any four):

 $4 \times 5 = 20$ 

a) Localized anaphylaxis.

- b) Graft versus host reaction.
- c) Catheter associated urinary tract infection. d) Biological indicators of sterilization.
- e) Waste bins used in biomedical waste management.