M-4009

Second M. B. B. S. Examination June/July - 2015 Microbiology: Paper - I

Tim	e :	Hours] [Total Mark	s: 40
Inst	truct	ions:	
(1)	યે દર્શાવેલ	a 🚁 નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. 🦳 Seat No. :	
FI	llup stri	ctly the details of signs on your answer book. ne Examination :	
-		ND M. B. B. S.	
1		ne Subject :	
-	MICRO	OBIOLOGY : PAPER - I	1
Sı	ıbject Co	ode No.: 4 0 0 9 Section No. (1, 2,): Nil	ire
(2)	Figu	ares to the right indicate full marks of the question.	
(3)	Dra	w neat labelled diagrams wherever necessary.	
1	Disc	cuss in detail : (any two)	8
	(a)	Enumerate the different methods of performing Antibiotic	C
		susceptibility Testing. Describe any one.	
	(b)	Explain the principle of working of an Autoclave. Write	Э
		a note on Sterilization control of an Autoclave.	
	(c)	Enumerate the different methods of gene transfer	
		Explain any one.	
2	Wri	te notes on : (any three)	12
	(a)	Herd Immunity.	
	(b)	Type I Hypersensitivity reaction	
	(c)	Secondary Immune Deficiency diseases.	
	(d)	Biological effects of complement.	
	,		
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3	Write	notes	on	(any	two)

- (a) Bacterial capsule
- (b) Major Histocompatibility complex class I
- (c) Cysticercus cellulosae

4 Write in short: (any three)

12

- (a) Pathogenicity and laboratory diagnosis of Naegleria fowleri.
- (b) Life cycle of plasmodium falciparum in Humans and Mosquitoes. Add a note on Methods of transmissions of Malaria.
- (c) Enumerate the different modes of transmission of human Toxoplasmosis. Explain the laboratory diagnosis of Toxoplasmosis.
- (d) Describe the course and termination of Amoebic liver abscess.

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[200]





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M-4010

Second M. B. B. S. Examination June / July - 2015

Microbiology: Paper - II Time: Hours] [Total Marks: 40 Instructions:

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Name of the Examination :	O la les 10 de
SECOND M. B. B. S.	
Name of the Subject :	distocicalis (b)
MICROBIOLOGY : PAPER - 2	1
Subject Code No.: 4 0 1 0 Section No. (1, 2,): Nil	Student's Signature

- Figures to the right indicate full marks of the question.
- Draw neat labelled diagrams wherever necessary. (3)
- 1 Write notes on : (any two)

- (a) Enumerate microorganisms causing Urinary Tract Infection. Describe the laboratory diagnosis of any one bacterial agent.
- Enumerate the microorganisms causing Gas Gangrene. Describe the laboratory diagnosis of any one.
- Classify Non Tuberculous Mycobacteria and describe its pathogenesis.
- Write notes on : (any three)

12

- Toxic Shock Syndrome Toxin
- Name the biotypes of V. Cholerae 01. Write a note on Cholera Toxin.
- Lab. Diagnosis of Helicobacter pylori infection
- Corynebacterium ulcerans.

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3	Write	notoe	On		(ansr	THE PO	١
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- (a) Tinea Capitis
- (b) Clinical manifestations caused by Candida. Add a note on laboratory diagnosis of Candida
- (c) Opportunistic Fungal Infections.

4 Write notes on: (any three)

12

- (a) Serological Markers of Hepatitis B infection
- (b) Viral Inclusion Bodies
- (c) Classical Dengue Fever
- (d) Laboratory diagnosis of HIV infection.



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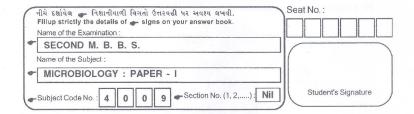
M-4009-N

Second M. B. B. S. Examination

December - 2015 Microbiology : Paper - I

Time: Hours] [Total Marks:40

Instructions:



1. Discuss in detail (any two)

(08)

- a. Describe the structure of a bacterial cell wall and its significance in antimicrobial resistance.
- b. Enlist mechanism of gene transfer in bacteria. Describe in detail the one resulting in transferable drug resistance.
- Define sterilization. Describe the working principle, control and application of gas sterilization.

2. Write short notes (Any Three)

(12)

- (a) Mechanisms of innate immunity.
- (b) Delayed hypersensitivity reaction.
- (c) Structure and function of IgG
- (d) Enlist four important characteristics of antigen antibody reaction. Describe zone phenomenon and its effect of test results.

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3. Write notes on: (any two)

(08)

- (a) Immunological tolerance.(b) Spauldings classification for Medical Devices and Levels of Disinfection.
- (c) Autoinfection.

4. Write in short (Any Three)

(12)

- (a) Pathogenesis and laboratory diagnosis of malignant malaria
- (b) Describe life cycle and pathogenesis of W bancrofti.
- (c) Stool concentration techniques.
- (d) Congenital toxoplasmosis- pathogenesis and laboratory diagnosis.



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M-4010-N

Second Year M. B. B. S. Examination December - 2015 Micirobiology: Paper - II

Na Na	યે દર્શાવેલ → નિશામીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. llup strictly the details of → signs on your answer book. ame of the Examination: SECOND YEAR M. B. B. S.	Seat No.:
	MICROBIOLOGY : PAPER - II	
-Sı	ubject Code No.: 4 0 1 0 Section No. (1, 2,)	Student's Signature
Ι.	Discuss in detail (any two)	(08)
8	a) Describe morphology clinical features & diagnosis of acute gonorrhea.	laboratory
	b) Describe morphology and diagnosis of lepton (c) Laboratory diagnosis of Brucellosis.	ptospira.
2	write short notes (any three)	(12)
8	a) Reiter's syndrome.	
ł	p) Pathogenecity of Escherichia coli	
	c) Probiotics	
(d) Toxin & enzymes produced by streptococ	ccus pyogenes.
3	write notes (any two)	(08)
8	a) Enlist the opportunistic Mycoses, Describ	e Morphology
	& laboratory diagnosis of Cryptococcus in Mycotoxins.	
	c) Classification of Fungi.	

·4 write short notes (any three)

(12)

- a) Name the arboviruses prevalent in India & Discuss in detail about pathogenesis & laboratory diagnosis of Dengue viral infection.
- b) Replication of HIV virus.
- c) Classify viruses & write about commonly used viral vaccine.
- d) Describe antigenic structure & laboratory diagnosis of H1 N1 influenza.