Madhya Pradesh Medical Science University, Jabalpur MBBS 2nd Professional Examination October-2020

Paper Code:- 20AM0000100381 Subjec::-Microbiology Paper :-I

Tim	e : 3:00 Hours		Mo	aximum Marks:	40
b)	tions: All questions are compulsory Draw diagrams wherever necessary Answers of Questions and Sub ques	tions must be written strictly ac	cording to the serial order of avesti	on paper.	
ล) e) J)	MCQ has to be answered in theory Please write MCQ answer neatly an MCQ has to be answered only once answers will not be counted in the name Total MCQs: 16	answer book nd in serial order with black or b r, any kind for repetition or cutti	lue pen in brackets for example:- I	. (a) 2. (b)	Such
1	Best chemical disinfectant	to disinfect stethoscope is		AGA 72-0	
	a. Ethylene oxide	b. Isopropyl alcohol	c. Steam plasma	Alphalogenated	
		1 10	sterilization	compounds	
2	Bacitracin sensitivity test is	done to identify which of	the following groups of Steep		
•	a. A	b. C	c. D _91	d. B	
3	Botulism is most commonly	y due to:	000		
1	a. Meat	b. Canned vegetables	c. Egg	d. Milk	
4	Fish tank granuloma is cau	sed by:	V.		
	a. M. gordonae	b. M. scrofulaceum	c. M. kansasii	d. M. marinum	
5	Invasive infections are caus	sed by all except:	Ci		
	a. V. cholerae	b. Shigella spp.	Campylobacter jejuni	d. Yersinia entero	litica
6	All of the following statem	ents are true regarding end	ốtoxins except:		
	a. Lipopolysaccharide	b. Poorly antigenic	c. Neutralized by specific antibodies	d. Heat stable	
7	MRSA is mediated due to:	Wille	undoodies		
•	a. Chromosome	b. Transposons	c. Plasmid	d. All of the abov	7 2
8	Congenital syphilis can be	{ \ *	o. I labilita	d. All of the above	C
Ł	a. TPI	b. JgM FTA - ABS	c. IgG FTA - ABS	d. VDRL	
9	Bacillary angiomatosis is a			a. vbia.	
	a. Bartonella quintana	b. Bartonella	c. Bartonella henselae	d. Rickettsia typl	hi .
		bacilliformis	or 2 ar formation notice the	d. Idekelisia typi	54
10	Triple Sugar Iron est detec	•	perties except:		
	a. H ₂ S	b. Gas	c. Sugar fermentation	d. Citrate utiliza	tion
11	Multiple drug resistance is		o. Sugar formomunon	d. Cittate utiliza	uon
•	a. Conjugation	b. Mutation	c. Transformation	d. Transduction	
12	Castaneda method of blood			d. Haibddelloli	
- (Toxic shock syndrome	b. Brucellosis	c. Lobar pneumonia	d Dalamaina Co	
132/	Most common cause of diameter			d. Relapsing fev	ver
The same	a. EHEC	b. EIEC	•) Empo	
14			c. EPEC	d. ETEC	
17	Which of the following is n a. <i>Campylobacter</i>	.*			
1.5		b. Bacterioides	c. Pseudomonas	d. Vibrio	
15	Recommended transport me	edium for stool specimen	suspected to contain enterio	pathogen is:	
•	a. Stuart's medium	b. Amie's medium	c. Pike's medium	d. Buffered gly saline medium	
16	Which organism is responsi	ible for causing severe pu	rulent neonatal conjunctivit	is?	
1	a. Streptococcus pyogenes	b. <i>Neisseria</i>	c. Chlamydia trachoma		cus

gonorrhoeae

aureus

Long Answer Question Q. 2

- Classify Mycobacteria. Describe in brief about laboratory diagnosis of pulmonary a. tuberculosis. Add a note on recent advances in laboratory diagnosis.
- Name two organisms causing sore throat and discuss in detail about the laboratory diagnosis of diphtheria. b.

Short Answer Question Q.3

 $4 \times 3 = 12$

- Mechanisms of microbial pathogenicity. 3.
- Laboratory diagnosis of Salmonella Typhi. b.
- Anaerobic culture methods. c.
- d. Bacterial Flagella.

- What is Target hemolysis? Mention the organism producing it.
- Lerial diseases

 Let the organism pro
 Lated bacteria.

 Lemolysis? Mention the organis.

 Lemperature and holding period durin

 Let two tests used for determining efficacy.

 Lon two contributions of Robert Koch.

 Lumerate two organisms causing urinary tract infective Enumerate two organisms causing atypical pneumerate.

 Mention two standard tests for syphilis.

 Mention two standard tests for syphilis. Mention the temperature and holding period during Inspissation.
 - Enumerate two tests used for determining efficacy of disinfectants.

 Mention two contributions of Robert Koch.

 - Enumerate two organisms causing urinary tract infection.

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Madhya Pradesh Medical Science University, Jabalpur MBBS Second Professional Examination September 2019

Paper Code:-19BM0000100381 Microbiology Paper -I

Maximum Marks: 40 Time: 3:00Hours Instructions: All questions are compulsory Draw diagrams wherever necessary b) Answers of Questions and Sub questions must be written strictly according to the serial order of question paper. d) MCQ has to be answered in theory answer book Please write MCQ answer neatly and in serial order with black or blue pen in brackets for example:- 1. (a) 2. (b) MCQ has to be answered only once, any kind for repetition or cutting or erasing or whitener will be consider as malpractice. Such answers will not be counted in the marks and action will be taken according to UFM rules of University Total MCQs: 16 0.1 Cytotoxic drugs should be placed in which container? c.Red b.Grey a. Yellow The generation time for E. coli is -2 c. 40 minutes d. 50 minutes b. 30 minutes a. 20 minutes Temperature range for Pasteurization of milk is -3 c. 80 - 90 ° C b. 70 - 80° C d. 90 - 100° C a. $60 - 70^{\circ}$ C When a parasite is growing & multiplying in or on a host is said to have -4 c. An infection d. A symptom b. A vector a. Pathogenecity The molecular basis for the effect of Cholera toxin on duodenal mucosal cell is -5 c. Increased activity of d. Increased generation of b. Inactivation of a G₁ a. Activation of cyclic adenosine mono potassium pump protein adenylatecyclase phosphate (cAMP) Which of the following condition is nonsuppurative sequelae of Streptococcus pyogenesin fections? 6 c. Erythmanodosum d. All of these a. Acute rheumatic b. Acute glomerulonephritis fever Which of the following is generally not considered a potential agent of Bioterrorism & Biologic 7 Warfare? d. Botulinum toxin b. Bacillus anthracic c. Streptococcus a. Yersinia pestis pyogenes Throat culture is not usefull to diagnose d. Pneumonia a. Streptococcal sore b. Diphtheria c. Thrush Which of the following bacteria, causing sexually transmitted disease, cannot be grown on artificial Q media? d, Treponemapallidum& c. Treponemapallidum a.Neissariagonorrhoea b. Chlamydia Chlamydia trachomatis trachomatis Chocolate agar is an example of a pure enriched medium used for culturing d. Salmonella c. Enterococci a. Streptococci b. Haemophillus Which of the following is the commonest species of Salmonella for causing zoonotic disease? d. S. enteritidis c. S. typhimurium a. S. indiana b. S. newport Which of the following properties is / are seen in the member of family Enterobacteriaceae? 12 d. They reduce nitrate to c. They ferment glucose a. They are catalase b. They are oxidase

negative

positive

nitrite

Transmission of Bubonic Plague is by -**1**3 d. All of these a. Rat flea b. Inhalation c. Ingestion The enrichment medium for the isolation of Shegella is -14 d. None of these c. Selenite F broth a. Alkalline peptone b. Tetrathionate broth water McFadyean's reaction is employed for presumptive diagnosis of -15 d. All of these c. Typhoid b. Tetanus a. Anthrax Tumbling motility is present in -16 d. Klebsilla c. Salmonella b. E. colli a. Listeria Q. 2 Long Answer Question Discuss the Morphology &Pathogenecity of Mycobacterium tuberculosis. Add a note on Laboratory a. diagnosis of Pulmonary Tuberculosis. Discuss the Morphology, Culture characteristics &laboratory diagnosis of Salmonella typhi. b. $4 \times 3 = 12$ Q. 3 Short Answer Question Enumerate various methods of gene transfer. Discuss any one of them in detail. a. Write down the toxins & enzymes of Staphylococcus aureus. b. SON Describe in brief the VDRL TEST c. Segregation of biomedical waste. d. 10X 1 = 10Very Short Answer Question Q.4 Name any two natural water bacteria. a. Name any two modes of transmission of Nosocomial pathogens. b. Enumerate any four causative bacteria of Meningitis. c. Enumerate the methods of demonstration of Capsule. d. Enumerate the nonsporing anaerobic gram negative bacilli. e. Name the causative bacteria of food poisoning. f. Name any two virulence factors of Pneumococcus. g. Give examples of zoonotic disease. h. Enumerate pigments produced by pseudomonas species. i. Name two chemicals used in Cold sterilization.

Madhya Pradesh Medical Science University, Jabalpur MBBS 2nd Professional Examination November-2019

Paper Code:-19BM0000100381 Microbiology Paper -I

Time	: 3:00Hours			Maximum Marks: 40
Instru	ctions:			
a)	All questions are compuls Draw diagrams wherever	ory necessary		
b) c)	Answers of Questions and	Sub questions must be written:	strictly according to the serial ord	der of question paper.
d)	MCO has to be answered	in theory answer book		
c) J)	MCQ has to be answere malpractice, Such answer	ed only once, any kind for rep	black or blue pen in brackets for petition or cutting or erasing o marks and action will be take	whitener will be consider as
	University 16			O 16 X ½ = 8
Q. 1		and fact avaget:		$10 \text{ A } 7_2 = 8$
1		g are acid fast, except :-	c. Cryptosporidium	192
	a. Mycobacterium	b. Nocardia		d. Ilégionella pneumophila
2		e has a resolution power of	:-	
	a. 0.2mm	b. 0.22m	c. 0.2nm	d. 0.5nm
3	Which of the follow	ving is most resistant to ste		
	a. Tubercle bacilli	b. Virus	c. Spores	d. Prions
4	All of the following	g pathogenic bacteria fulfil	l Koch's postulates except:	
	a. Treponema	b. Yersinia pestis	c. Bacillus anthracis	d. Helicobacter pylori
	pallidum			
5	Transmission of the	e portion of DNA from one	bacterium to another by b	acteriophage is known as:-
	a. Transformation	b. Transduction	c. Conjugation	d. Lysogenic
				Conversion
6	Which of the follow	ving toxin is responsiblé fo	or the staphylococcal scalde	ed skin syndrome?
	a. Enterotoxin	b. Leucocidin	c.Hemolysin	d. Exfoliative toxin
7		racin can be used to identif	fy :-	
	a. Streptococcus	b. Streptococcus	c. Streptococcus mitis	d. Streptococcus
	pyogenes	agalactiae		equisimilis
8		ed for gonococci is:		
	•	b. Pike's medium	c. VR medium	d. Cary Blair medium
9	Site of action of tet	anue tovin		
	1 1 1	b. Postsynaptic terminal	a Mauranuscular	d. Muscle Fibers
	a. Presynaptic terminal of spinal cord	of spinal cord	Junction	d. Muscle 1 locis
10	Fried egg colonies	are produced by		
10	a. Bacillus cereus	b. Neisseria subtlava	c. Haemophilus	d. Mycoplasma
(5			infuenzae	pneumoniae
JI	_	ed to stain the inclusion b	•	0.1
	a . Chlamydia	b. Chlamydophila	c.Chlamydophila	d. None of the above
	trachomatis	psittaci	pneumoniae	
12	Who discovered M	ycobacterium leprae?		
	a. Robert Koch	b. Hansen	c. Kitasato	d. Louis Pasteur
13	The causative agent	of Lyme disesase is:		
	a. Borrelia	b. B. duttoni	c. B. vincentii	d. B.burgdorferi
	recurrentis			
14	Traveller's diarrhoe	ea is caused by:		
	a. ETEC	b. EHEC	c. EPEC	d. EIEC

d. Louse c. Hard tick Plague is transmitted by: An organism grown on nutrient agar shows green colored colonies. The organism is most likely. 15 d. Peptostreptococcus c. Pseudomonas 16 $2 \times 5 = 10$ b. E. Coli a. Staphylococcus Write in detail about pathogenesis & laboratory diagnosis of enteric fever. Long Answer Question Q.2 a. Describe pathogenesis & laboratory diagnosis of pulmonary tuberculosis. b.

Q.3**Short Answer Question**

- Laboratory diagnosis of cholera. a.
- b. Biomedical waste management.
- C. Standard tests of syphilis.
- d. Describe genetic mechanism of drug resistance.

Very Short Answer Question Q.4

10X 1 =10

- Most common bacteria causing community acquired Urinary Tract Infection. a.
- Name two anaerobic culture methods. b.
- Write two test for demonstration of diphtheria toxin. C.
- ď. Which Shigella species causes most severe type of dysentery?
- Draw bacterial growth curve. ê.
- f. Write two differences between Exotoxins. & Endotoxins.
- Write two selective culture media. g.
- Write two methods of antibiotic susceptibilty testing methods. h.
- i. Significant bacteriuria.

ALCON TO SERVICE AND ADDRESS OF THE PARTY OF

Write two methods of sterilisation control. 1

Madhya Pradesh Medical Science University, Jabalpur MBBS Second Professional Examination September 2019

Paper Code:-19BM0000100382 Microbiology Paper -II

			ruper -11	
Time: 3	:00Hours			Maximum Marks : 40
Instruction a) All (c) b) Dra c) Ans d) MC e) Ple	s: puestions are compulsory w diagrams wherever ne wers of Questions and S Q has to be answered in ase write MCQ answer of CO has to be answered or	cessary ub questions must be written stri	ick or blue pen in brackets for es or cutting or erasing or whiten	of question paper. sample:- 1. (a) 2. (b)
	Total MCQs: 16		The according to UPIM P	utes of University $0.16 \times \frac{1}{2} = 8$
Q. 1		ophytes is most often associate	ed with -	310 X 72 - 6
1	a.Intravenous drug abuse	b.Inhalation of the organism from contaminated bird faeces	c.Adherence of the organism to perspiration moist skin	d.Feed oral transmission
2	Which of the follow molecule -	ing substances will not stimu	llate an immune response unl	ess they are bound to a larger
3	a. Antigen Which of the following	b. Virus ing is not a RNA virus -	c. Hapten	d. Antibody
3	a. Retrovirus	b. Enterovirus	c. Rhabdovirus	d. Adenovirus
4		ig statements causing Ascaris l	umbricoids is correct, Except	
4	a. Ascaris lumbricoids is one of the largest	b. It can cause Pneumonia	c. Both Dogs & Cats are intermediate host of Ascaris lumbricoids	d. It is transmitted by ingestion of eggs
5	. C. ling of large	multinucleated clumps of cel a suggests that this infection is	caused by -	of a 2 years old girl with acute
	a. Bordetella	b. Epstein barr virus	c. Mycoplasma hominis	d. Respiratory syncytial virus (RSV)
	Each of the follow	ving parasite is transmitted by n	c. Plasmodium vivax	d. Plasmodium falciparum
	a. Leishmania donovani	b. Wuchereria bencrofti		
)	a. It can cause Pneumonia	b. It is acquired by huma when filariform larva	americanus	finding the trophozoit in the stool
	8 A girl who pric	penetrate the skin ked her finger while pruning s odules then develop along the lo	ome rose bushes develops a local lymphatic drainage. The m	ocal pustule that progresses to an ost likely agent is -
	a. Aspergillus	b. Sporothrix schenekii	rea formans	
	Naturally acqui	red active immunity could be m	ost likely acquired through wh	d. Infection with disease
	a. Vaccination	b. Drinking colostrum	C. Ivaturui over	by recovery
	10 In accolutination	on the antigen is a, In p	recipitation reaction the antiger	n is a
	10 In agglutinatio a. Whole cell a Soluble molec	b. Soluble molecule /	c. Bacterium / Virus	d. Protein / Carbohydrate
		is a cell surface molecule preser	nt on -	d. T cell
	a. B cell	b. All nucleated cell	e. APC	g, i cen

How is Dengue fever	transmitted 2		
a. Bite of an infected male anopheles mosquito	b. Bite of an infected male aedes mosquito	c. Bite of an infected female anopheles mosquito	d. Bite of an infected female acdes mosquito
The human virus that	has been associated with Bur	kett's lymphoma (a mali-	
a. Cytomegalovirus	b. Human Papilloma virus	c. Reovirus	
unish of the following	ng gastroenteritis viruses can		d. Epstein barr virus
a. Sapovirus	b. Rotavirus	c. Norovirus	d. Astrovirus
	ng statement concerning Trich	omonas vaginalis is correct. F	u. Ashovirus
a. It is transmitted sexually	b. It can be diagnosed by visualizing the trophozoites	c. It can be treated effectively with Metronidazole	d. It causes bloody diarrhoea
16 Rheumatoid arthrit	is is an disease that	affects the	
a. Allergic / Cartilage.	b. Autoimmune / Nerve	c. Immunodeficiency / Muscles	d. Autoimmune / joint
Q. 2 Long Answer Que	estion		$2 \times 5 = 10$
a. Classify different	Hepatitis viruses. Write Labo	oratory diagnosis & Prophylax	is of infection caused by Hepatitis
Deime		tomy diagnosis of Echinococcu	s granulosus
b. Describe the Mor	phology, Life cycle & Labora	tory diagnosis of Lemilococus	
Q. 3 Short Answer Qu	iestion		4 X 3 = 12
a. Write in short ab	out Laboratory diagnosis of A	Amoebic infection.	
		No.	
c. Short note on P	a species. Write a note on Car rophylaxis against Poliomyeli	tis.	
d. Principle & Ap	plication of ELISA in clinical	microbiology.	
	Ouestion		10X 1 = 10
Q.4 Very Short Ans	belled diagram to show struct	ure of Giardia lamblia.	
b. Enumerate co	mplication of Falciparum mal	aria.	
c. What factors	help in eradication of small po	ox ?	
d. What is inclu	sion bodies ?Give any 2 exam	ples.	
e. Enumerate il	ne diseases caused by Cytome	galovirus.	
f. Enemerate the	he viruses which produce eye	infections.	
	estinal Nematodes.		
h What is the	deference between aerial & v	egetative hyphae.	
	ll labeled diagram of Ig G imn		

Name the causative organism of Chicago disease & Farmer's Lung disease.

j.

Madhya Pradesh Medical Science University, Jabalpur MBBS 2nd Professional Examination November-2019

Paper Code:-19BM0000100382 Microbiology Paper -II

100Hours Maximum Marks: 40 questions are compulsory diagrams wherever necessary vers of Questions and Sub questions must be written strictly according to the serial order of question paper. Do has to be answered in theory answer book wase write MCQ answer neatly and in serial order with black or blue pen in brackets for example:- 1. (a) 2. (b) ico has to be answered only once, any kind for repetition or cutting or erasing or whitener will be consider as malpractice. Such answers will not be counted in the marks and action will be taken according to UFM rules of University Total MCQs: 16 16 X ½ = 8 in human being cytophilic antibody is d.lgG c.lgE Kohler and Milstein were awarded Nobel prize for d. Radioimmunoassay a. Monoclonal antibodies b. Structure of c. Genetic immunoglobulins engineering Homograft is also called d. Isograft a. Autograft b. Allografi c. Xenograft Enterically transmitted NANB hepatitis is c. Hepatitis E d. Hepatitis F a. Hepatitis C b. Hepatitis D Retrovirus is classified in c. Spermavirinae d. All of the above a. Oncovirin b. Lentivirinae Shape of ebola virus is c. Bullet Shaped d. Rod Shaped b. Brick shaped a. Filamentous Oldest method of cultivation of viruses d. Tissue culture b. Birds inoculation c. Chick embryo a Animals inoculation Band shaped trophozoites are seen in 8 c. Plasmodium d. Plasmodium Ovale b. Plasmodium a. Plasmodium vivax Malariae falciparum Trematodes include all except b.Schistosoma c.Schistosoma d.Diphyllobothriumlaturn a Schistosoma Hematobium Japanicum Mansoni All of the following are features of amoebic dysentery except 10 b. Odourless d. Presence of Charcota. Frequency of passing c. Acidic stools 6 to 8 times per day Leydon crystals Amoebae causing pyorrhea 11 a. Entamoeba coli b. lodamoeba d. Entamoeba Gingivalis c. Endolimax Nana Butschlii Resistance that an individual acquire during life is 12 a. Acquired immunity b. Innate immunity d. None of the above c. Active immunity

c. Blastomyces

d. All of the above

b. Sporotrichum

Dimorphic fungi are

a. Histoplasmacapsulatum

13

d. Microsporum Mucoid colony resembling those of Staphylococcus is c. Trichophyton b. Cryptococcus 14 a. Candida albicans neoformans d. Hymenolepis nana Which of the following helminths is called guinea worm c. Brugia malayi 15 b. Wuchereria a. Dracunculus medinensis bancrofti d. All of the above Sporozoite has special affinity in anopheles for c. Intestine 16 b. Stomach a. Salivary glands Enumerate the fungi causing superficial mycoses. Describe Lab Diagnosis of Dermatophysis... Q. 2 Enumerate intestinal nematodes. Describe morphology, life cycle and pathogenicity of Trichuris Trichura. a. b. Describe in brief the lab. diagnosis of disease produced by if. $4 \times 3 = 12$ **Short Answer Question** Q.3Morphology and pathogenicity of Cryptococcus neoformans. a. b. Herpes Zoster virus. C. Difference between T and B cells d. Morphology and pathogenesis of Rabies virus. Q. 4 Very Short Answer Question 10X 1 = 10a. Write lattice hypothesis. Write principle and name types of immunofluorescence. Mention two characteristics of Killed vaccine. Define Eumycetoma. Mention two common etiological agent. What is 'id' reaction? How it is diagnosed. Draw well labelled diagram of Mucor. Mention two characters of viruses. Define Haemagglutination and elution. Enumerate two pathogenic lesions in classical filariasis. நெய்கள் process of egg of hookworm.

b.

c.

d.

C.

f.

g.

h.

Madhya Pradesh Medical Science University, Jabalpur Paper Code:- 18AM0000100381 MBBS 2nd Professional Examination 2018 (Winter Session)

		Subject-Microbi	ology Paper- I	
Instr	uctions:	All questions at	ra campulcara	
1)	MCQ question paper should be co Fill (dark) the appropriate empty of Use blue/black ball point pen only	inducted and completed in first 30 resircle against the question number of	nin.	n MCQ.
T:.	ne : 30 Minutes			Maximum Marks: 8
		Total MCQs: 16		$16 \times \frac{1}{2} = 8$
Q.	Lallowing pathoven does n	not satisfy Koch's postulates		
1	a. Bacillus anthracis	b. Mycobacterium tuberculosis	c. Clostridium tetani	d. Lepra bacilli
2	ENT is seen in :-			d. Pure neuritic leprosy
	a. Lepromatous leprosy	b. Tuberculoid leprosy	c. Indeterminate leprosy	d. Pure neurine reprosy
3	Stalactite growth in ghee b	oroth is due to:		t T mollidum
	a. H. influenzae	b. Corynebacterium diphtheriae	c. Y. pestis	d. T. pallidum
4	Which of the following is	the mechanism of action of dip	htheria toxin?	d. Inhibits elongation factor 2
	 a. Forms pores in red blood cells causing hemolysis 	b. Degrades lecithin in eukaryotic cell membranes	c. Causes release of tumor necrosis factor	d. Inhibits elongation factor 2
5	Which of the following is	an enrichment media		. Ti Martin madium
	a Nutrient broth	b. Tetrathionate broth	c. Stuart medium	d. Thayer Martin medium
6	Which of the following is	most likely to be associated wi	th the formation of a bacterial bio	ofilms?
	 a. Airway colonization in a cystic fibrosis patient with a mucoid (Alginate- producing) strain of pseudomonas aeruginosa 	b. Urinary tract infection with Escherichia coli	c. Meningitis with Neisseria meningitides	d.Tetanus
7	Commensal flora is comm	only found in the :-		
	a Live	h Urethra	c. Kidneys	d. Salivary glands
8	A farmer presents to the symptoms. Clinical examination bipolar stained organisms	ination reveals an ulcer in leg	painful regional lymphadenopa . Which of the following stains	athy, history of fever and flu like should be used to detect suspected
	a. Albert stain	b. Wayson's stain	c. Ziehl Neelsen stain	d. Mc Faydean's stain
9		od is used for demonstration o	ſ:	
,	a Chirochaetes	 b. Vibrio cholerae 	c. salmonella	d, Shigella
10	A 4 ald have develo	one bloody diarrhea. Hemorri	nagic colitis due to Escherichia f make the diagnosis of this infe	coli O157:H7 is suspected. Whatetion?
	a. Blood agar	b.Sorbitol MacConkey agar		d. CIN (cefsulodin, irgasan, novobiocin) agar
11	Scrub typhus is transmitte	ed by:		
11	a. Reduvid bug	b. Ticks	c. Enteric pathogens	d. Trombiculid mite larva
12	Vibrio parabaemolyticus	Vibrio parahaemolyticus food poisioning is caused by ingestion of :-		
12	a. Eggs & Poultry	b. Catfish, shellfish	c. Raw vegetables	d. Milk products

d. Motile by polar flagellum

c. Glucose not fermented by

all

products

negative

a. All are oxidase

Chancroid is caused by:

13

14

Which is true of enterobacteriaceae:-

b. Nitrate reduction negative

d. HSV c. Gonococcus b. T. pallidum a. H. ducreyi BCYE medium is used to culture 15 d. Legionella c. H. pylori A 37 year old woman with a history of urinary tract infections comes to the emergency department with burning on b. T. pallidum urination along with frequency and urgency. She says her urine smells like ammonia. The cuase of her urinary tract 16 infection is likely to be :d.Escherichia coli c. Citrobacter freundii b. Proteus mirabilis a. Enterobacter aerogenes Madhya Pradesh Medical Science University, Jabalpur Paper Code:- 18AM0000100381 MBBS 2nd Professional Examination 2018 (Winter Session) Subject: Microbiology Paper-I Instructions: 1) All questions are compulsory 2) Draw diagrams wherever necessary for Question no. 2, 3 and 4. 3) Answers of Questions and Sub questions must be written strictly according to the serial order of question paper. otherwise the question shall not be valued 4) Do not write anything on the blank portion of the question paper. If written anything, such type of act will be considered as an attempt to resort to unfair means. Maximum Marks: 32 Time: 2.30 Hours $2 \times 5 = 10$ Q. 2. Long Answer Question Discuss the morphology, cultural characteristics and pathogenecity of Vibrio cholerae. Add a note on laboratory diagnosis of cholera. Discuss the morphology, transmission and pathogencity of clostridium tetani. Add b. a note on prevention of tetanus. $4 \times 3 = 12$ **Q3 Short Answer Question** Pathogenecity of Chlamydia trachomatis a. Helicobacter pylori b. Nongonococcal urethritis c. Diarrhoeagenic E.coli d. 10X 1 = 10Q4 Very Short Answer Question Enumerate complications of diphtheria a. Enumerate the disease caused by Staphylococcus aureus b. Enumerate α haemolytic streptococci and diseases caused by them c. Enumerate important biochemical characters of Streptococcus pneumoniae d. Classify atypical mycobacteria e. **Tyndallisation** f. Make a well labeled diagram to show structure of bacterial cell g. Enumerate causative agents of non venereal syphilis h. Enumerate 3 important transport media with their uses. i.

Important differences between exotoxins and endotoxins

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Madhya Pradesh Medical Science University, Jabalpur MBBS 2nd Professional Examination 2018

Paper Code:- 18BM0000100381

Subject- Microbiology Paper -I

Instructions

All questions are compulsory

1) MCQ question paper should be conducted and completed in first 30 min.

2) Lill (dark) the appropriate empty circle against the question number once only

3) Use blue black ball point pen only

4) Fach MCQ carries half mark. allowed mark if he/she overwrites/ strikes or but white ink on the cross once marked on MCQ.

Tim	e : 30 Minutes			Maximum Marks: 8			
Q. 1		Total MCQs: 16		$16 \text{ X } \frac{1}{2} = 8$			
1	All of the following are con	aponents of the cell wall of Gram-Ne	gative bacteria FXCEP1?				
	a. Peptidoglycan	b. Outer membrane	e. Teichoic acid	d. Lipopoly saccharide			
2	Stuart's transport medium is	s used for the transport of specimens	containing?				
	a Salmonellac	b. Gonococci	c. Librio cholerae	d. Shigellae			
3	Dienes phenomenon is seen	in?					
	a Proteus	b. Pseudomonas	e. Providencia	d. Shigellac			
1	A farmer presents with feature the diagnosis?	ures of high grade fever, painful lym	phadenopathy, vomiting, diarrhea and				
	a. Ziehl- Neelsen stain	b. Wayson's stain	c. Kinyoun's stain	d. Mucicarmine stain			
.5	Which of the following state a. It induces immune response	ement is true about hapten? b. It is a 1 independent antigen	c. It needs carrier to induce immune response	d. It has no association with MHC			
6	Nagler reaction is example of	of?					
	a. Precipitation	b. CFT	c. Agglutination	d. Neutralization			
7	The following methods of d	iagnosis utilize labeled antibodies E	XCEP1?	V			
	a. HTISA	b. Radioimmunoassay	c. Hemagglutination inhibition test	d. Immunofluorescence			
8	Autoimmunity can be caused due to all of the following EXCEPT?						
	a. The pressure of forbidden clones	b. Expression of cryptic antigens	c. Release of sequestered antigens	d. Negative selection of 1-cells in the thymus			
9	CAMP test is useful in ident	tification of?					
	a S. pvogenes	b. S. agalactiae	e. Viridans streptococci	d. S. pneumoniae			
10	A "Malignant pustule" is a term used for?						
	 a. An infected malignant melanoma 	b. A carbuncle	c. Anthrax of the skin	d. A rapidly spreading rodent ulcer			
11	Site of action of tetanus toxin?						
	a. Presynaptic terminal of spinal cord	b. Postynaptic terminal of spinal cord	e. Neuromuscular Junction	d. Muscle fibers			
12	Fish tank granuloma is cause	ed by?					
	a. M. kansasu	b. M. fortuitum	c. M. marinum	d. M. ulcerans			
13	All of the following tests car	n differentiate between classical and	HEL for biotypes of Γ_c cholerae EXC	EP1?			
	a. β hemolysis on sheep blood agar	 b. Chick erythrocyte agglutination 	e. Polymyxin B (501U)	d. growth on TCBS agar			
14	Cause of melioido is is?						
	a. Burkholderia mallei	b. Burkholderia pseudomallei	c. Burkholderia cepacia	d. None			
15	All of the following serological tests would be helpful in the diagnosis of chronic brucellosis EXCEPT?						
	a. Standard agglutination test	b. Mercaptoethanol test	c. Complement fixation test	d. ELISA detecting IgG			
	Which is not a property of Mycoplasma?						
	a. Susceptibility to beta lactams	b. Have both DNA and RNA	c. Can grow in cell-free media	d. Extracellular survival			

Madhya Pradesh Medical Science University, Jahalpur MBBS 2nd Professional Examination 2018 Paper Code:- 18BM0000100381

Subject: Microbiology Paper -I

Instructions:

1) All questions are compulsory

2) Draw diagrams wherever necessary for Question no. 2, 3 and 4.

3) Answers of Questions and Sub questions must be written strictly according to the serial order of question paper, otherwise the question shall not be valued

4) Do not write anything on the blank portion of the question paper. If written anything, such type of act will be considered as an attempt to resort to unfair means

Time: 2.30 Hours

Maximum Marks: 32 $2 \times 5 = 10$

Q. 2. Long Answer Question

Enumerate the methods of gene transfer and discuss the mechanisms of drug resistance in bacteria.

Classify Rickettsiaceae. Write in detail about pathogenesis and lab diagnosis of b. typhus fever.

Q3 Short Answer Question

 $4 \times 3 = 12$

- Type IV hypersensitivity. a.
- Hot air oven. b.
- Lepromin test. c.
- Monoclonal antibodies. d.

Q4 Very Short Answer Question

10X 1 = 10

- Sattelitism. a.
- Name four bacterial zoonotic infections. b.
- Oxidase test. c.
- Koch's postulates. d.
- Name Three live bacterial vaccines. e.
- Diagram of Immunoglobulin. ſ.
- Name Three Heterophile Antigen Antibody reaction. g.
- Name the HACEK group of bacteria. h.
- What is Bile solubility test? Describe its principle. i.
- Name four bacteria causing food poisoning. j.



Second M. B. B. S. (Professional) Examination, Feb.-March 2017

MICROBIOLOGY

Paper : Second

Time Allowed: Three hours

Maximum Marks: 40

Minimum Pass Marks: 20

Note: All questions are compulsory.

1. Enumerate Pathogenic protozoal parasites. Describe the lesion caused by an Laboratory diagnosis of Entaemoeba histolytica.

- 2. Classify Viruses. How can the viruses be isolated in the Laboratory?
- 3. Define agglutination reaction and discuss the principle and applications of agglutination reaction giving suitable examples.
- 4. Differentiate between :
 - (i) Active and Passive Immunity
 - (ii) Exotoxin and Endotoxin
- 5. Write short notes on:
 - (i) Inclusion Bodies
 - (ii) Parainfluenza viruses
 - (iii) Primary Syphilis

Second M. B. B. S. (Professional) Examination, February-March 2017

MICROBIOLOGY

Paper : First

Time Allowed: Three hours

Maximum Marks: 40

Minimum Pass Marks: 20

Note: All questions are compulsory.

1. A 23 year old man is admitted to the hospital 5 days after a crush injury to his right leg following a road traffic accident. On examination the wound which was bandaged

with a soiled gauge, appeard to be heavily contanminated with soil, the local muscles appeared to have been crushed, there was edema and pain at the site and erepitus was felt on palpation.

1+2+4+3=10

- (i) What is the most probable diagnosis?
- (ii) Name the etiological agents causing this condition.
- (iii) Describe the laboratory diagnosis of this condition to find out the causative agent.
- (iv) Discuss the treatment given in this condition. Give reason.
- 2. Discuss briefly:

3×5=15

- (i) Bacterial cell
- (ii) Mutation
- (iii) Standard test for syphilis
- 3. Write short notes on:

(i) Staphylococcal Enterotoxin

- (ii) PCR
- (iii) Cholera toxin
- (iv) Soft chancre

4×2½=10

4.	Write	down	one	sentence	answer	
		CACA AA TH	CALAS	CONTROLLO C		

5×1/2=21/2

- (i) Definition of nosocomial infection
- (ii) Hansen's disease is name give to
- (iii) Definition of Generation time



- (iv) Definition of Transduction
- (v) Plague is transmitted by artheropod vector

5. Write True or False:

5×1/2=21/2

- (i) Louis Pasteur proposed the principle of fermentation for preservation of food.
- (ii) Battey bacillus is a common name given to mycobacterium intracellulare.
- (iii) Coagulase test is used to differentiate between staphylococcus from streptococcus.
- (iv) In Lepromatous leprosy lepromin test is positive.



(v) Salmonella are motile except S. Typhi.

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M-1210

Second M. B. B. S. (Professional) Examination, Feb.-March 2015 CXD

MICROBIOLOGY

Paper: Second

Time Allowed: Three hours

Maximum Marks: 40

Minimum Pass Marks: 20

Note: Attempt all questions.

Write about:

 2×4

- Principle of Autoclave (i)
- Bacterial growth curve (ii)

		2×4
2.	Write significance of:	
	(i) Gram staining	
	(ii) Negative staining	
3.	Enumerate different intestinal nematodes. Write the I cycle of Ankylostoma duodenal along with laborate	ife ory 🍕
	diagnosis.	
	diagnosis.	,,,,
4.	Write short notes on:	4×2
	(i) Dermatophytes	
	(ii) Mycetoma	
	(iii) Candidiasis	
	(iv) Modura Mycosis	
5.	Differentiate following in tubular form:	4×2
	(i) Active and Passive Immunity	•
	(ii) Primary and Secondary immune response	
	(iii) Immediate and delayed hypersensitivity	

(iv) VDRL and RPR Test