### il-Azhar University-GAZA ;AZA – PALESTINE 'aculty of Pharmacy



#### pharmaceutical microbiology

Final exam Time: 120 min

Student Name.....

# میکرو د.رهیفة

Part 1
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Villager Ingel
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PART 2
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MS: ROHAIFA J HADDAD

opening appropriate to provide history work and theretay get a stage of

d. Escherichia coli

d. Escher saids organisms is least likely to cause this illness? Spendococcus pyogens d. Salmonella enteritidis

(Interialization august para called upon to investigate. According (serialism difficile You are called upon to investigate. According to your knowledge of the normal flora, he's the most likely source of the organism? C) Vagina d)Throat

| Color | Wall protein of Streptococcus pyogenes cross reacts with human A spovial fluid D. vascular intima a cardiac valves Streptolysin O is c) heat-labile d all of these) a migenic haygen-labile c) tubercules expand, drain into broncioles Frimary TB characterized by Necrosis of tubercle = calcification d)b+c Extrapulmonary - coughing, greenish or boody sputum c) pains in the joints, irritation of the eyes, and 13- Reiter's syndrome painful urination seased by shigella desentry d) can lead to chronic arthritis. Caused by Shigella flexneri c) polysaccharide capsule, Endotoxin (LOS) (IgA) 4 Meningococci have three important virulence factors ipolysaccharide capsule, Endotoxin (LPS) protease. d) None of the above 8. the bacteria involved in the production of dental caries is/ are: d)Streptocaccus pyogene c) Produce Exotoxins - tetanospasmin 98 agalactaies Streptococcus mutans d) pseudomembrane colitis A Clostrium tetani Scause Gas gangrene cause food poisoning

### Part I:microbiology

#### Q1: Choose the correct answer

Tonion days and	
1. Which of the following is not a gram-neg	ativebacteria?
A. Clostridium perfringens     B. Vibrio cholerae     Which of the following is not true related.	C. Escherichia coli
A. Endotoxins are secreted from cells B. Can be linked to Meningococcemia 3-Which of the following is not true concern	C. Produced by gram negative microorganisms
A. S. aureus is related to inflammation	C. S. aureus can lead to acute bacterial
B. S. aureus can cause pneumonia 4-Which of the following microorganisms ha	endocarditis D. S
B. Pseudomonas	C. Klebsiella D. Haemophilus ase are initially introduced into host in the form
spores except	the love
a) tetanus b) gas gangrene E)A+C	C) scarlet fever d) Anthrax
6-Many enterics possess antigens that can be	used to identify groups
<ul> <li>A) O antigen – somatic, ,H antigen – flagellar, heat labile antigen K antigen – capsular, heat- labile antigen</li> </ul>	O- antigen flagellar, h antigen somatic, k antigen b) capsular
<ul> <li>c)O antigen capsular, oantigen flaellar, h</li> <li>antigen somatic</li> <li>r- siderophores and hemolysins usually prod</li> </ul>	d) All of the above
a)proteus b) klebsella 8- shega toxin produced by	c) shigella d) E.coli
A)shigella only	c) salmonally and it
b) EIEC only e) all of the above. 9- toxic mediated disease of stapylococcus au	c) salmonella enteric only. d) a+b
a)Food poisoning, Toxic shock syndrome, scalded skin syndrome b)Impetigo Folliculitis, Furuncles 10- in the year 2002 some strain of s. aureuse	c) Bacteremia Pneumoniae, Osteomyeliti Endocarditis, d) Impetig, Bacteremia Pneumoniae, Osteomyeliti
a) Pencillin     b) Vancomycin     11- Each of the following agents is a recognize	c) Tetracycline d) Methicillin ed cause of diarrhea except
a. Clostridium perfringens	c. Enterococcus faecalis

#### Q2:

## A)Complete the table

	Disease	selective media
M.O		
EHEC		The state of the s
/al-remainers	scarlet fever	************
	Gas gangrene	***************************************
	tuberculosis	
		hekton enteric aga
	Securit Investment 1	
yersenia pestes		
		S.S AGAR
	ophthalmia neonatorum	

#### B)Differentiate with one test

M.O <sub>1</sub>	M.O <sub>2</sub>	The test
E. coli spp	Klebsella spp	
Shigella	E.coli o157: H7	
Staph aureus	Staph epidermis	4.20
Sterpcoccus pyogen	Streptococcus pnemonia	Service Service of the
N. gonnoreha	N.meningitis	
S Epidermis	s.saprophytic	- The stage of the

### Q3: EXPLAN (ANSWER 5 ONLY)

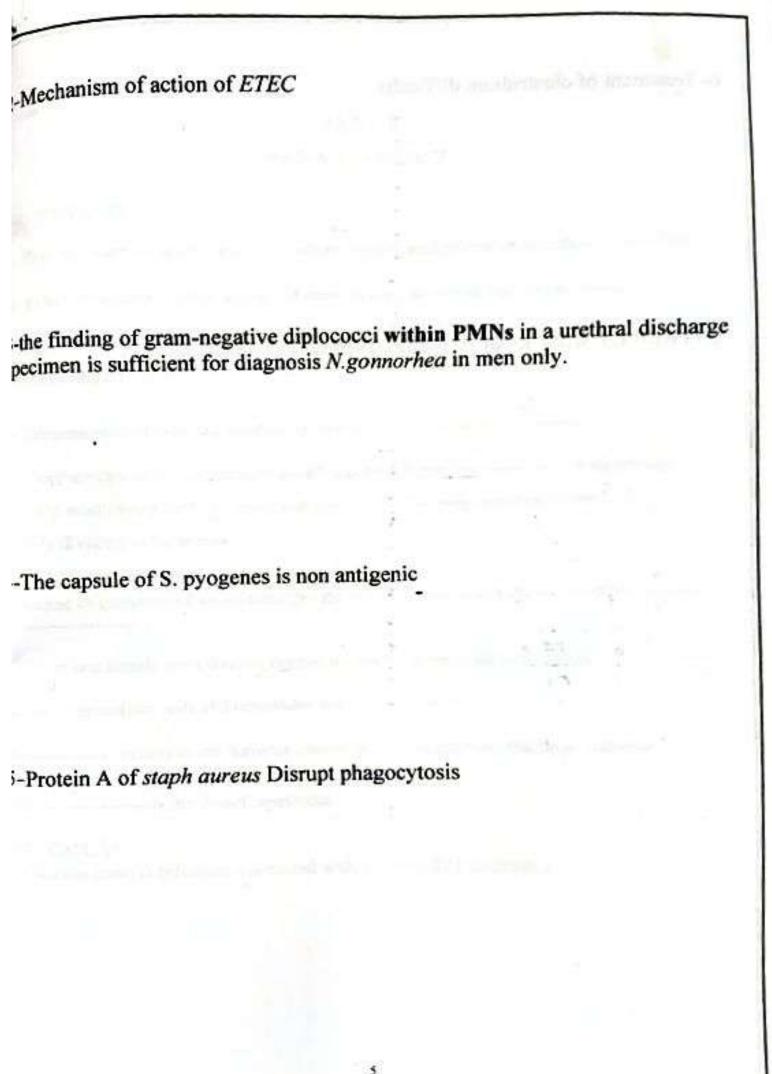
1-Advantages and disadvantages of normal flora

6- Treatment of clostridium difficalis

Q4 PREIFLY write about your mini research

(bonus question)

Harmon American State of American August 2nd American St.



- The egg of S. haematobium can detected in urine

- Toxoplasmosis gondii infection causes abortion

-Hyper infection

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## PART II PARASITOLOGY

OMPLETE:
ost that harbors adult parasite or where sexual multiplication occurs
nfection acquired from animals Human beings are accidental hosts
agnostic stage of Entameoba histolyticawhile is the
ctive stage.
ransmission of Giardia lamblia by
rophozoites of Toxoplasmosis gondii has two formsis motile and ckly multiplying cellular stage, andis semidorminant,
wly dividing cellular stage
ource of infection of toxoplasma gondii,,,
Male and female reproductive organs are found in separate individuals
the intermediate host of Trematodes are
occurs in the superior mesenteric veins draining the large intestine
is the dwarf tapeworm.
2: EXPLAN:  Giardia lamblia infection associated with vitamin B12 deficiency