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Da

Department of Pathology Azra Naheed Medical College Grand Test-1, 04 December MBBS 3" Year (SEQ)

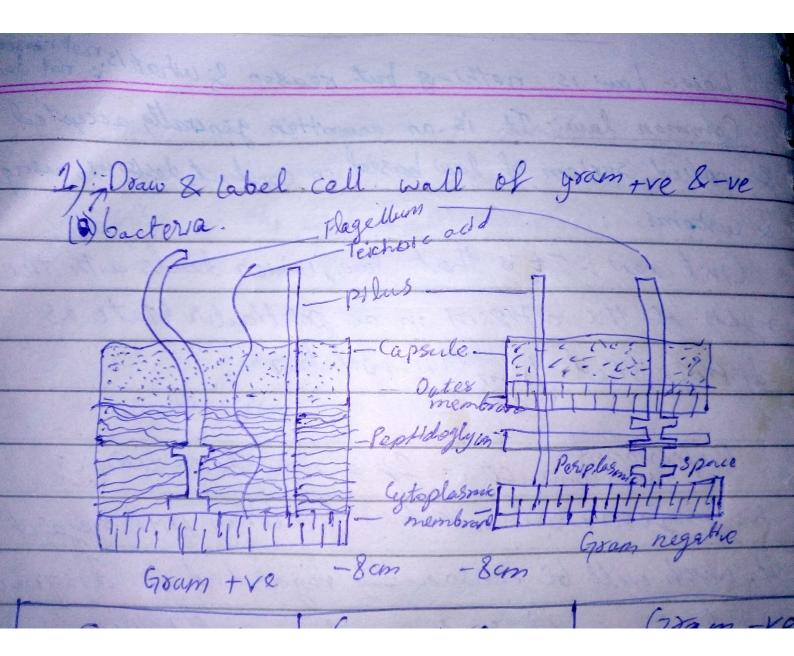
(General Microbiology)

Bacheria 2018-2019 Total Marks: 25

Time Allowed: min

Hafiz Muhammad Farhan

ne:	Instructions: 1. All subjective questions are to be attempted of paper and returned to the invigilator within specime after you have received the question paper. 2. Neat hand writing and use of margins will inconsidered the paper.	er.
Atten	npt all Questions. Each Question carries 5 marks	
1. a. Braw and label	the cell wall of Gram positive and Gram negative bacteria e of fermentation in the respiration of facultative bacteria a on the basis of their temperature requirements.	? (2) ? (1.5) (1.5)
	flora. Discuss the vaginal flora before puberty and after pu	berty. (3)
(a) Define normal (b)Define nosocon (c)Name one of th	nial infection. ne most important measures to stop nosocomial infection	(1)
	/ which abase of growth	curve is the
a - Naw and label	the bacterial growth curve. During which phase of growth	(2+0.5
-tfoot of antihiotics maximum:		(1.5)
what are plasmids and their roles?		(1)
c. What is the air	see sterilize the instruments and bed lin	en in the
4 By which method	of sterilization we can sterilize the instruments and bed lir tion theaters? What is its principle and procedure?	(0.5+1.5)
h Define the following:		(1.5)
1: Storilizati	ion & Disinfection d its medical implication	(1.5)
ii, Spore an	a its medical impose	(2)
5. (a) Name four m (b) Briefly discus	echanisms of action of antimicrobial drugs. ss the mechanism acting on the bacterial cell wall.	(3)



6) Religioceges of the sespication facultative brokers; If Oz is present, the pyourate produced by feamentation enters the Kreb's cycle & metabolize into two final products CO2 & H2O. The Kreb's cycle generates much more ATP than Thyolytic cycle therefore facultative bactera grow fastes in the presence of Facultative & aparolic backers a ferments but aerobes which can grow only in presence of the do not.

c) Classify bacteria in the basis of their temp requirements with examples.

presupposes prophilic Thermophilic

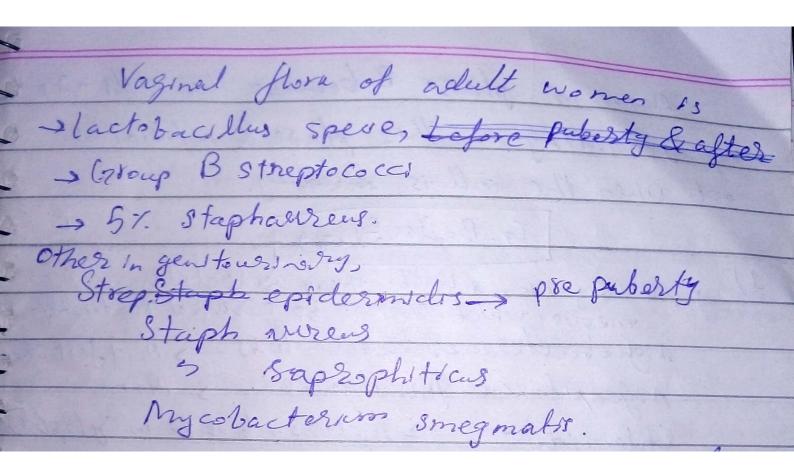
20-46: -15-10: 45-122:

thefritemp: Campylo bacter

feguri

Low temp: Lister a monographic

Jenson that the permanent residents of the body.



A hospital acquired infection:

A hospital acquired infection

(HAS) also known as nosocomial infection that

is acquired in a hospital or other health

care facility.

(c) most important step to prevent nosocomial

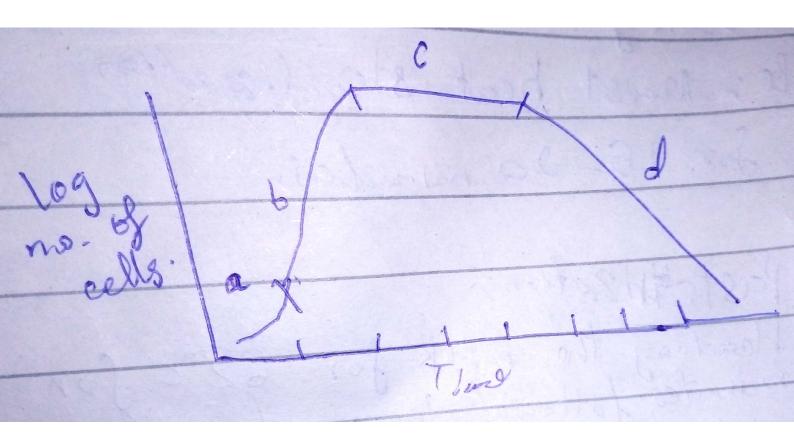
"fection"

2) Handwashing

2) Gloves

5) Stethoscope: Cleaning with an alcohol

snab at least daily



Max, in phoise & because the cells we sapidly dividing in this phase & antibiotics act when the cell is dividing.

2: Define plasons ds. * Functions?

Plasons ds wre extra chromosomel

Jouble standed cellulari molecules that are

capable of seplicating independently of the

bacterial chromosome.

Functions: - Antibiotic resistance,

Yossistance to heavy metals,

pili

Pili

OV light, exotoxin,

Conjugation

Toursduction

DNA transfer Som

one buckerial cell to bacteria from

another.

Prokaryotic

Prokaryotic

PNA Any gene

transferred: generalized

transferred: generalized

Only certain genes in

Specialized transduction.

by which method we can sterilize the instruments & bed linens.

Auto daving

Principle: Mosst heat stoulization

Principle: Jor 18-20 minutes.

(ii) Sterilizations

Killing or removal of all microorganisms maluding bacterial spores.

Disinfection: It is the Killing of many but not all
micro-organisms.

(iii) Spore & its medical implications.

Spore: Highly rests tant structures formed
in response to Adverse conditions.

Medical importance of spores her in
extraordinary resistance to heat & chemicals.

5)-a) Name 4 MPA of anthroisobral drugs.

2) Cell wall synthesis inhibitors:-Penicillar Cephals.

2) Protein synthesis:-Amignofycosides

3) DNA gyrase whilaters:- Quinolones

4) ANA polymerase philbitors: Van Comy an

