SUBJECT: MICROBIOLOGY PAPER- I

TIME: 3 Hrs

Note: Attempt all questions. Answer PART- A and PART - B in separate answer books. All part of a question should be

	part of a question should be
1 Lond PART	-A
1 Long Answer Question	PAPER CODE: 22111300
A 65 year old male was admitted to a bosnital with	11.
small amount of pus discharge from the ingrown hair.On warm and tender.Aspirated pus was subjected to Gram	plaints of severe pain in the lateral aspect of his right thigh and
warm and tender Aspirated pussess at the ingrown hair.Or	physical examination, the local area was found to be red
warm and tender. Aspirated pus was subjected to Gram blood agar showed golden yellow pigmented beta-bend	stain and showed Gram positive cocci in clusters Culture on
blood agar showed golden yellow pigmented beta-hemo	lytic colonies.
What is clinical diagnosis and its causative organism?	(c) Describe the virulence factors of this organism
cist the infections caused by this organism	(d) Briefly discuss the laboratory diagnosis
Q.2 Short Notes Questions (within 500 words)	
a) Difference between bacterial endotoxins and	(5 x 3 = 15)
b) Gram Positive cocci infections	exotoxin
c) Importance of confidentiality pertaining to pa	sings identity on lab requite
Q.3 Short Answer Questions (within 100 words)	
a) Superantigens (within 100 words)	(2 x 5 = 10)
b) Immune complex mediated hypersensitivity feactions	d) Graft versus host reaction
c) Chronic granulomatous disease —	e) Differences between Disinfection and Sterilisation
O.A. Madriala Chaire	1 × 10 = 10)
1 A patient who recently returned from camping in forest	2 The most effective way of preventing tetanus is:
presents with malabsorption diarrhea. How does the mos-	The state of the s
likely agent cause the diarrhea?	
(a) Co-infection with bacteria	(a) Hyperbaric oxygen
(b) Enterotoxin production	(b) Tissue debridement
(c) Suction disk attachment	(c) Tetanus toxoid
(d) Tissue invasion leading to an inflammatory response and	(d) Antibiotics
prostaglandin production	A CALL TO A CALL
3 Aerosol Transmission occurs in all except:	4 "Malignant pustule" is a term used for
(a) Mycobacterium tuberculosis	(a) An infected melanoma
(b) Pneumococcus	(b) A carbuncle
(c) Measles virus	(c) A rapidly spreading rodent ulcer
(d) Varicella (chickenpox and zoster)	(d) Anthrax of the skin
5 If bacteriological examination of CSF is expected to be	6 Which antigen persist in Salmonella carrier state?
delayed then it is stored as:	(a) Hantigen
(a) It is frozen	(b) Mantigen
(b) It is kept at 37°C	(c) Oantigen
(c)—It is kept at room temperature	(d) Vi antigen
(d) Sample is discarded  7 Which of the following waste should be pre-treated on-site  8 Which of the following waste should be pre-treated on-site  9 Which of the following waste should be pre-treated on-site  10 Which of the following waste should be pre-treated on-site  11 Which of the following waste should be pre-treated on-site  12 Which of the following waste should be pre-treated on-site  13 Which of the following waste should be pre-treated on-site  14 Which of the following waste should be pre-treated on-site  15 Which of the following waste should be pre-treated on-site  16 Which of the following waste should be pre-treated on-site  17 Which of the following waste should be pre-treated on-site  18 Which	8 Number of Moments in Hand Hygiene as per World
7 Which of the following waste should be guidelines 2016	Health Organization is
as per Bio Medical Waste Management	(a) 4
a) Expired/discarded medicines	(b) 5
Chemical solid waste	(c) 6
athor clinical	(d) 10
	10 Which of the following site is most commonly
The second life transfer	affected by Corynebacterium diphtheriae :
Sharp waste	corynebacterium diphtheriae :
Dermatophyte that does not affect nail:  Dermatophyte that does not affect nail:  Microsporum	(a) Skin (c) Faucial



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(within 500 words)

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(2+3+5+5=15)

(5x3=15)

## Q.1 Long Answer Question

Q.2 Short Notes Questions

A 6 year old boy was admitted to the hospital with complaints of high grade fever, headache, vomiting, altered mental status, seizure and neck rigidity. CSF was collected by lumbar puncture in a sterile container and sent to Microbiology lab.

- (a) What is the probable clinical diagnosis?
- (b) Enlist the bacterial etiological agents of this disease
- (c) What is the pathogenesis of this disease?
- (d) Briefly discuss the laboratory diagnosis

(Within 500 words	5)
<ul> <li>Personal Protective Equipments</li> </ul>	
b) Standard tests for Syphillis	
c) Bacterial zoonotic infections V	
/	ords) (2 x 5 = 10 )
Q.3 Short Answer Questions (within 100 wo	
<ul> <li>a) Enlist types of Culture media</li> </ul>	d) Bacterial aetiological agents of Urinary tract
<ul> <li>b) Difference between active and passive immunity</li> </ul>	Infections
c) Life cycle of Chlamydia	e) (Adjuvants)
	(1 x 10 = 10 )
Q.4 Multiple Choice Questions	2 Which of the following is not a cause of
1 A 32 year old male has got clean wound without	neonatal meningitis?
laceration.He had a booster dose of TT 6 years	neonatal meningitis:
ago.What is the next line of management?	
the standard with single dose of tetanus toxoid	(a) Escherichia coli
l I with human tetanus ig with tetanus	(b) Streptococcus agalactia
t and with complete course of tetalius toxolu	(c) Listeria monocytogenes
in the supplication	(d) Streptococcus pneumonia
(d) Wound care with no immunisation  3 Which culture medium is preferred for culture of urine	4 Causes of Non gonococcal urethritis are
3 Which culture median is project	all,Except:
specimens?	(a) Chlamydia trachomatis
(a) TCBS agar	(b) Herpes simplex virus
(b) CLED agar	(c) Candida albicans
(c) Chocolate agar	(d) Treponemapallidum
(4) VID agar	The state of the s
is transmitted by:	
	(a) Before touching patient
(a) Rat flea	(b) After touching patient
(b) Soft tick	(c) After toching patient surroundings
(c) Hard tick	(d) Hands are visibly soiled
(4) LOUSE	a Edwards items contaminated with blood and
which of the following disinfectants is NOT used	body fluids including cotton dressings belong to
currently for disinfection of operation theatres?	body fluids including coccon dressings belong to
Currently je	which category of biomedical waste?
N CONTRACTOR N	(a) Yellow
(a) Formaldehyde	The Party of the Control of the Cont
(L) Clutaraldehyde based	A CONTRACTOR OF THE PROPERTY O
i de de gon peroxide based	(c)
ammonium compound	(d) White  10 Which of the following agent of meningitis can
9 1:he decreasing order of risk of transmission following	10 Which of the joint wing agent of meningths can
9 The decreasing order of the grant of the decreasing order of the grant of the gra	grow on chocolate agar but not on blood agar?
occupational exposure:	(a) Neisseria meningitides
The state of the s	(a) Neisseria inclining
(a) HIV > HBV > HCV	I Uzemophilus illilucita
(b) HBV > HIV > HCV	Moraxella Catalinana
- m t - UN	(c) Moravella coli
(e) HBV > HCV > HIV	(a)
(d) HCV > HBV > HIV	