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ENTRANCE EXAMINATION - ACADEMIC SESSION JANUARY 2025

Program: PDCC in Hospital Infection Control

Time:90 Minutes

Max.Marks: 100

(Select the most appropriate answer)
(There are**no negative** marks for wrong answers)

1	Wh	What is the first link in the chain of transmission of infection?		
	a	Reservoir		
	b	Infectious agent		
	С	Portal of entry		
	d	Mode of transmission		
2	What type of transmission occurs when a person uses a towel previously used by an affected individual			
	a	Airborne		
	b	Direct contact		
	С	Indirect contact		
	d	Vector-borne		
3	In a patient cohort area, the minimum separation distance between patient beds is			
	a	1.5 feet		
	b	2.5 feet		
	C	3 feet		
	d	5 feet		
4	Which among the following is NOT a critical item?			
	a	Prosthetic valve		
	b	Cardiac catheter		
	С	Cystoscope		
	d	Surgical blade		
5	Which among the following concentration of sodium hypochlorite is recommended for inactivation of prions?			
	a	1%		
	b	1.5%		
	С	2%		
	d	5%		
6	Which among the following disinfectants is NOT inactivated by organic matter?			
	a	Phenol		
	b	Sodium hypochlorite		
	C	Isopropyl alcohol		
	d	Hydrogen peroxide		

a b c d WHO	t is the concentration of peracetic acid used for sterilization? 0.01 - 0.03% 0.02 - 0.05% 0.1 - 0.2% 0.2 - 0.3% O's Antimicrobial Awareness Week (WAAW) is celebrated every year on		
c d WHO a b	0.1 - 0.2% 0.2 - 0.3%		
d WHO a b	0.2 - 0.3%		
WHO a b	0.2 - 0.3%		
WHO a b			
a b	J S I II I I I I I I I I I I I I I I I I		
	November 12-18		
	November 18-24		
C	November 24-30		
d	November 8-12		
Whi	ch among the following antiseptic classes have no mycobactericidal		
actio	on?		
a	Alcohol		
b	Iodophors		
С	Phenol derivatives		
d	Quarternary ammonium compounds		
The	ideal time to start the first dose of post-exposure prophylaxis (PEP)		
	r exposure to HIV-positive needle stick injury is		
a	Within 2 hours		
b	Within 24 hours		
С	Within 72 hours		
d	Within 96 hours		
The recommended parts per million (ppm) of chlorine for disinfecting blood			
a	100		
b	1000		
С	10000		
d	100000		
Wha	at is the protective cut-off antibody titre for Anti-HBs antibody?		
a	10mIU/ml		
b	50mIU/ml		
ć	100mIU/ml		
d	1000mIU/ml		
What among the following is the incubation period for measles?			
a	3-5 days		
b	7-10 days		
С	10-14 days		
d	3-4 weeks		
Wha	at is the appropriate time for hygienic hand rub?		
a	20-30 sec		
b	30-40 sec		
С	40-60 sec		
d 10-20 sec			
Wha	at does the 'N' in N95 stand for?		
а	Not resistant to oil		
b	Non-filtering		
С	Non-particulate		
d	NIOSH-certified		
	b c d The after a b c d The spill a b c d Wha a b c		

16		at is the average rate of HBV sero-conversion after an accidental exposure to od (AEB) (for per-cutaneous exposure)		
	а	0.03%		
	b	0.3%		
		3%		
	d	30%		
1.77	-			
17		at is the minimum pressure differential to maintain positive pressure flow in isolation room?		
	a	2.5 Pa		
	b	5 Pa		
	С	10 Pa		
	d	20 Ps		
18		ich among the following is the commonest infection transmitted while handling avers?		
	a	HIV		
	b	Hepatitis B		
	C	Hepatitis C		
	d	Tuberculosis		
19	-	at is the cut-off number of days to differentiate Early vs Late VAP?		
19		2 days		
	b	4 days		
		7 days		
	C			
00	d	14 days		
20	As per NABH recommendations, what is the minimum number of fresh air changes per hour (ACH) of the total ACH, in a Type A Operation theatre?			
	a	4		
	b	6		
	С	7		
	d	8		
21	In maintenance care bundle for prevention of VAP, the tracheal tube cuff pressure			
	is t	o be maintained betweencm H20		
	a	10-20		
	b	20-30		
	С	30-40		
	d	40-50		
22	Wh	ich is the correct sequence of removing PPE?		
	a	Gloves-Gown-Eye wear-Mask		
	b	Gloves-Mask-Eye wear-Gown		
	C	Gloves- Eyewear -Mask-Gown		
	d	Gown - Mask - Eyewear - Gloves		
23	What does the following formula represent?			
	Tru	e Negatives (TN)/True Negatives (TN) + False positives(FP) x100		
	a	Sensitivity		
	b	Specificity		
	C	Positive predictive value		
	d	Negative predictive value		
24	Wh	ich among the following is NOT a NS5A polymerase inhibitor?		
	a	Daclatasvir		
•	b	Ombitasvir		
	С	Velpatasvir		
	d	Sofosbuvir		

25	Scor	ch of the following is NOT a component of Visual Infusion Phlebitis(V.I.P)		
	a	Redness		
	b	Palpable venous cord		
	С	Fever		
	d	Leucocytosis		
26	Adm	inistration sets in continuous use for blood and blood components should be		
20		nged every		
	a	6 hours		
	b	8 hours		
	C	10 hours		
	d	12 hours		
27		ogical indicator used for vaporized H2O2 sterilization is		
-	a	Bacillus subtilis		
	b	Bacillus atrophaeus		
	C	Geobacillus stearothermophilus		
	d	Clostridium tetani		
28	Whi	ch among the following organism is intrinsically resistant to meropenem?		
	1 0000	Aeromonas veronii		
	a	Providencia rettgeri		
	b	Burkholderiacepacia		
	C	Stenotrophomomasmaltophilia		
20	d	at type of vaccine preparation is currently used for HPV vaccination?		
29				
	a	Viral vector		
•	b	Virus-like particle		
	С	mRNA		
	d	Lipid nanocoating		
30	WH	O recommends repeat dosing of pre-operative surgical antimicrobial ohylaxis (SAP) when there is bleeding of		
		>1 lit		
	a b	>1.5 lit		
		> 2 lit		
	C	> 2.5 lit		
0.1	d			
31_	Which among the following is a live vaccine? HPV vaccine			
	a			
	b	Hepatitis B vaccine Yellow fever vaccine		
	C	COVID vaccine		
	D			
32	and	SSI reduction,% Fio2 recommended by WHO during the intraoperative immediate post-operative period (upto 6 hours) for adult patients undergoing eral anaesthesia with tracheal intubation for surgical procedures		
_		70		
	a b	80		
		90		
	D	99		

33		hich of the following situations, alcoholic hand rub is NOT the		
	recor	mmended method of hand hygiene		
	a	MRSA wound infection		
	b	UTI due to Vancomycin-resistant Enterococci		
	С	Diarrhoea due to C. difficile		
	d	VAP due to Colistin resistant Klebsiella		
34		ch among the following WHO hand hygiene moments is the most ed during clinical practice?		
		Moment 2		
	a	Moment 3		
	b			
	C	Moment 4		
	d	Moment 5		
35	The state of the s	hich of the following color bags, the following category of waste is		
		arded: Surgical Mask		
	a	Yellow		
	b	Red		
	С	Blue		
	d	Black		
36	grow	year-old male diagnosed with food poisoning and a stool sample as Salmonella Typhimurium. What appropriate advice should be given		
		rding return to work?		
	a ·	After 3 negative stool cultures		
	b	Immediately as long as strict hand hygiene is observed		
	С	Immediately after symptoms have resolved		
	d	48 hours after symptoms have resolved		
37	Whi	ch among the following is NOT included in qSOFA score?		
	a	Systolic blood pressure		
	b .	Glasgow coma scale		
	С	Respiratory rate		
	d	Heart rate		
38	Which among the following doesn't belong to category 4 pathogens as per			
	Adv	isory committee on Dangerous pathogens (ACDP) classification?		
	a	MERS-CoV		
	b	CCHF virus		
	С	Smallpox		
	d	Hendra virus		
39	Ery	thema infectiosum is caused by		
	a	Human Parvo virus		
	b	HHV-5		
	С	HHV-6		
	d	Erythro virus		
40	What is the expected gentamicin peak level for therapeutic drug			
	monitoring?			
	a	<1 mg/L		
	b	1-2 mg/L		
	С	3-5 mg/L		
	d	10-15 mg/L		
•				

41	Whi	ch among the following fungi gives false-negative Beta-D-Glucan assay?	
	a	Aspergillus fumigatus	
	b	Penicillium marneffei	
	С	Fusarium solani	
	d	Pseudallescheria boydii	
42		RCY trial reported the PK-PD parameter of which among the following libiotics?	
	a	Meropenem	
	b	Colistin	
	C	Ceftazidime avibactam	
	d	Minocycline	
43		at is the antigenic composition of the recently FDA approved RSV vaccine?	
	a	Attachment glycoprotein (G)	
	b	Matrix protein (M)	
	C	Fusion protein (F)	
	d	Membrane protein (MP)	
44		ich among the following is NOT a mechanism of action of N95 mask?	
1.1	a	Impaction	
	b	Diffusion	
	-	Absorption	
	d	Interception	
45		at is the protective antibody level for Varicella post-vaccination/infection?	
45		>10 mIU/ml	
	a		
	b	>100 mIU/ml	
	C	>5 mIU/ml	
1.5	d	>50 mIU/ml	
46	According to the WHO's five-year strategy (2019-2023), the GPW13 4b (13th General Programme of Work) target for the percentage of antibiotic consumption from ACCESS group antibiotics is		
	a	100%	
	b	>80%	
	C	>60%	
	d	>50%	
47		3-year-old female patient had recently undergone cardiac bypass surgery. On	
1.4	POD-3, her condition worsened and was diagnosed with MODS. Her creatinine		
	level is 5.2 mg/dl. Her body weight is 62 kg. What's the eGFR/creatinine		
	clearance?		
	a	12.25 ml/min	
	b	15.25 ml/min	
	С	17.25 ml/min	
	d	20.25 ml/min	
48	Which among the following stains is used to demonstrate the capsule of		
	cryptococcus?		
	a	Mason Fontana stain	
	b	Malachite Green	
	С	Alcian Blue	
	d	Fite- Faraco	
49	Med	dlar bodies are observed in	
	a	Sporotrichosis	
	b	Histoplasmosis	

	С	Chromoblastomycosis			
	d	Subcutaneous zygomycosis			
50		ich among the following viruses do NOT have segmented RNA as nuclear			
	mat	rerial?			
	a	Influenza			
	b	Ebola			
	С	Rota			
	d	Lassa			
51	Wh:	Which of the following is the most difficult to prevent?			
	a	Respiratory infection outbreak			
	b	Diarrhoea outbreak			
	С	MRSA outbreak			
	d	HIV spread			
52	Wh	ich area requires positive pressure ventilation?			
	a	Source isolation ward			
	b .	Barrier isolation ward			
	С	Chickenpox isolation ward			
	d	Tuberculosis isolation ward			
53	Which is a cohort study				
	a	Risk for Ventilator associated pneumonia			
	b	Risk for Surgical Site Infection after cardiac surgery			
	С	Cross sectional study			
	d	Prognosis of post-CABG patients with SSI			
54	Following are the parameters for a diagnostic test, EXCEPT:				
	a	Pre-test probability(PTP)			
	b	Likelihood ratio(LR)			
	С	Number needed to treat(NNT)			
	d	Sensitivity			
55	Wh	ich of the following is not a beta-lactam antibiotic			
	a	Moxifloxacin			
	b	Penicillin			
	С	Cefepime			
	·d	Meropenem			
56	Vac	cination against Hepatitis B			
	a	Consists of a single dose			
	b	Is a live vaccine			
	С	Effectiveness is assessed by antibody titre			
	D	Is more effective than standard precautions.			
57	Which among the following is a critical category equipment requiring sterilisation				
	a	BP apparatus			
	b	Thermometer			
	С	Oxygen probe			
	d	Flexible endoscope			
58		ich of the following is used to disinfect surfaces and soak rubber equipment ore cleaning			
	a	Chlorine bleach			
	b	Boiling water			

6-11	С	1%Phenol		
	d	Iodine		
59	Whi	ch of the following disinfectants acts by disrupting microbial membranes?		
	a	Glutaraldehyde		
	b	Iodophors		
	С	Cationic detergent		
	d	Alcohol		
60	Whi	ch of the following was the first widely used antiseptic and disinfectant?		
3576	a	Alcohol		
	b	Phenol		
	С	Chlorhexidine		
	d	Quarternary ammonium compound		
61	Whi	ch of the following has the longest incubation period		
	a	Influenza		
	b	Chickenpox		
	С	Nipah virus disease		
	d	Mumps		
62	The	empirical antibiotic of choice in a patient with uncomplicated UTI:		
	a	Ampicillin		
	b	Cefepime		
	С	Tetracycline		
	d	Vancomycin		
63	Car	ndida glabrata is inherently resistant to:		
	a	Fluconazole		
	b	Flucytosine		
	С	Amphotericin B		
	d	Caspofungin		
64	Per	rcentage of chlorhexidine in the surgical hand rub?		
	a	1		
	b	2		
	С	3		
	d	4		
65	The	most recent method for typing MRSA in an outbreak situation		
	a	PFGE		
	b	MLST		
	С	Phage typing		
	d	spa typing		
66	CSI	F culture:		
	a	For meningitis must be done on refrigerated CSF if there was delay in		
		transportation		
	b	May show aseptic meningitis picture in Leptospirosis		
	С	A fibrin clot indicates Hemophilus influenzae meningitis		
	d	Will show pus cells> 100-1000 per mm³ in measles encephalitis		
67	Significant bacteriuria is also seen in:			
01	a	Tuberculosis of the kidney		
	b	Delay in processing		
	C	Contamination during collection		
	d	Vaginal flora contamination		
68		phylactic antibiotic chosen before surgery:		

a Is usually one that is least used in the facility b Is based on antibiogram c Is based on culture report of colonisers d Is usually a high end antibiotic Which among the following is a "clean-contaminated" category of su procedure? a Open cardiac massage b Spillage from gastrointestinal tract during aneurysm surgery c Appendicectomy d Dry gangrene of foot Gram positive bacilli isolated on blood agar with a hazy beta-hemoly growth on MacConkey's agar and a blue colour in transmitted light in probably a Listeria monocytogenes b Clostridium welchii c Erysipelothrixrhusiopathiae d Bacillus anthracis What are the common agents associated with healthcare-associated outbrea a Measles, mumps, and rubella b Influenza virus, RSV, and adenovirus c E. coli and Listeria d Syphilis and HIV For which of the following pathogens should you use handwashing with soal prevent infection a MRSA b Clostridium difficile c Pneumococci d Hepatitis A virus Categories of isolation precautions are all, EXCEPT: a Standard b Barrier c Contact d Respiratory Handwash is mandatory for a Before invasive procedures b After touching patient c Before touching patient d Visible contamination with blood or body fluid Which of the following viruses has not been associated with malignat a Hepatitis C Virus b Hepatitis B Virus c Varicella Zoster virus d HSV 2 76 In a live attenuated viral vaccine, the virus a Retains its structure and function b Does not replicate c Have no genome				
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b Does not replicate				
0 1100000000000000000000000000000000000				
d Has no envelope				
77 An outbreak of diarrhea and fever occurs in a hospital. Victims report	rt that the			
fever started 12-16 hrs after the intake of food. Which pathogen is the cause				

	a	C.difficile C.difficile		
	b	Non-typhoid Salmonella		
	С	Norovirus		
	d	Vibrio cholerae		
78	A male baby is born at 39 weeks gestation with a petechial rash, low birthweight hepatosplenomegaly and bilateral cataracts. This is thought to be due to which pathogen acquired while the baby was still in utero.			
	a	Rubella virus		
	b	CMV		
	С	Group B Streptococcus		
	d	Toxoplasma gondii		
79	Biological indicator used for ETO sterilization is			
	a	Bacillus subtilis		
	b	Bacillus atrophaeus		
	С	Geobacillus stearothermophilus		
	d	Clostridium tetani		
80	Tox	oplasmosis is commonly transmitted through:		
	a	Mosquito bites		
	b	Sexual contact		
	c	Contaminated food or water		
	d	Airborne droplets		
81		disease caused by the larval stage of Echinococcus granulosus is known as:		
	a	Hydatid disease		
	b	Cysticercosis		
	C	Ascariasis		
	d	Taeniasis		
82	Naeglariafowleri is usually found in			
02	a	Warm salt water		
	b	Cold sea water		
	C	Warm, fresh water		
	d	Contaminated drains		
83		ecalis is differentiated from other enterococci by its ability to ferment		
00	a	Pyruvate		
	b	Glucose		
		Arabinose		
	D	Lactose		
84		lemia in Dengue		
0+	a	Lasts longer in primary infection		
	b	Peaks by 10-12 days of fever		
	-			
	C .	Cannot be detected by molecular methods		
0.5	d	Is the cause for dengue shock syndrome		
85	Which of the following antibiotics shows post antibiotic effect a Penicillin			
	a	The Control of the Co		
	b	Cefotaxime		
	C	Amikacin		
	d	Aztreonam		
		the same at the contract of the		

86	Azt	reonam is				
	a	Resistant to ESBL				
	b	Inactivated by AmpC				
	C	Inactivated by Metallo beta lactamases of NDM type				
	d	Resistant to KPC				
87		ivity of Penicillin is not affected by				
0,	a	Bile				
	b	Hydrochloric acid				
	C	Cysteine				
	d	Sodium Hydroxide				
88	7.37.50	ibiotic that does not achieve therapeutic levels in CSF				
00		Cefoperazone				
	a b	Meropenem				
	,	-				
	d	Vancomycin Cloxacillin				
00	-					
89	a	lowing is an access antibiotic as per AWARE classification of WHO Meropenem				
	a	Weropenem				
	b	Doxycycline				
	С	Ciprofloxacin				
	d	Ceftazidime-Avibactam				
90	Mei	Meropenem resistance is most commonly due to				
**	a	Overexpression of efflux pumps				
	b	Overproduction of AmpC				
	С	Carbapenemases				
	d	OprD overexpression				
91		Antibiotic that can be used in infections of bone and deep tissues with anaerobic				
	7	a Gentamicin				
	a b	Daptomycin				
	-	Clindamycin				
	C	Ampicillin				
00	d					
92		Which is the key component in the immunity against HIV being used in vaccine trials?				
	a	Antibody dependant cell mediated cytotoxicity(ADCC)				
	b	IgM mediated neutralisation				
	С	Opsonisation				
	D	Interleukins				
93	The	common cause of resistance in C.auris is the presence of				
90		Ergosterol biosynthesis gene(Erg2)				
	b	Efflux pump encoding genes(CDR1)				
	С	Mutations in the Glucan synthase gene(GSC 1)				
	d	Mutation in the sterol demethylase gene(Erg11)				
0.1	77101					
94	-	E endemicity in a hospital can be contained by				
	a	Fumigation Deducing thick and autibiotics				
	b	Reducing high end antibiotics				
	С	Cleaning, disinfection and aseptic precautions				
	d	Hypochlorite use				
	1	1110.				

95	Sur	veillance of VAP(as per CDC NHSN definition) is not done in	
	a	Neonatal ICU	
	b	Cardiac Surgery ICU	
	С	Medical ICU	
	d	OBG ICU	
96	ven adn	tale patient in the neurology ICU, admitted for strokeand put immediately on tilator, develops fever and increased secretions on the third day after mission. The patient was given DVT prophylaxis, sucralfate and was in a pped up position. What component of the VAP bundle is missing?	
	a	Hand hygiene	
	b	Bed should be 6ft from the next bed	
	C	Daily sedation vacation	
	d	Maintain the pressure in the endotracheal tube	
97	The blood culture of a patient in the surgical ICU grew Pseudomonas aeruginosa sensitive only to Colistin. Which specimen would yield the source of the organism leading to an intervention that involves source reduction?		
	a.	Urine	
	b	Pus swab from wound	
	С	Sputum	
	d	Femoral cannula tip	
98	On routine examination of the urine of a chronic neurology patient catheterized at admission, who was asymptomatic, red cells, pus cells and bacteria were seen. Why did this happen?		
	a	Patient has asymptomatic bacteriuria	
	b	Urine was centrifuged and examined	
	С	Patient has renal tuberculosis	
	d	Patient has acute pyelonephritis	
99	Pati	ent risk factors for Surgical site infection include all, EXCEPT:	
	a	Prolonged surgery	
	b	Smoking habit	
	С	Obesity	
	d	Diabetes Mellitus	
100	Post operative osteomyelitis is a		
	а	Organ-space SSI	
	b	Deep SSI	
	С	Superficial SSI	
	d	Not an SSI	

e infecti