The West Bengal University of Health Sciences B.Sc Nursing 3rd Semester March Examination, 2024

Subject: Applied Microbiology & Infection Control including Safety

Tiı	ne: 3 Hours.	Full Marks: 75			
	Attempt all que	stions			
1.	Pick up the right answer from the options given : a) Who is called the "Father" of Modem microbiol	ogv?	6 x 1		
	i) Edward Jenner. ii) Alexander Fleming.b) Which vaccine should be given at birth?	iii) Robert Hooke.	iv) Louis Pasteur.		
	i) BCG Vaccine.ii) MMR Vaccine.c) Who is called the "Father of antiseptic Surgery"	iii) DT Vaccine.	iv) JE Vaccine.		
	i) Louis Pasteur.ii) Robert Koch.d) Which of the following is not a live attenuated v	iii) Joseph Lister.	iv) Edward Jenner.		
	i) B.C.G Vaccine.ii) MMR Vaccine.e) Which immunoglobulin is responsible for type l	iii) Measles Vaccine.	iv) DT Vaccine.		
	 i) IgA. ii) IgM. f) Reaction between a particulate antigen with its a 	iii) IgE.	iv) IgG.		
			Complement fixation.		
2.	Define Immunity. Write down the types of Immunity. Write down National Immunization Schedule. 2+2+6				
3.	Write short notes of <i>any three</i> of the following:a) Size and form of bacteria.b) Types of culture media.		3 x 5		
	c) Robert Koch.d) Classification of Microbes.e) Serological tests.				
4.	 Write very short notes of <i>any three</i> of the following a) Hypersensitivity Reaction. b) Cold chain. c) Parasite. d) Types of Vaccines. e) Acquired Immunity. 	•	3 x 2		
5.	Encircle the most suitable answer of the following q	7 x 1			
	a) Which of the following is a method of sterilizationi) Autoclave.ii) Hot air oven.	iii) Inspissations.	iv) Pasteurisation.		
	b) Recommended Parameters for autoclave are :i) 100°C, 10Psi, 10 minutes.	ii) 150°C, 15 psi, 15	minutes.		
	iii) 180°C, 10 Psi, 30 minutes.	iv) 121°C, 15 psi, 15 r	ninutes.		

	c) Zoonasis means a disease spread by :			
		i) Animal to Man.	ii)	To and from man and animal.
		iii) Man to Animal.	iv)	None of the above.
	d)	Mode of Transmission of Diseases:		
		ii) Inhalation. ii) Inoculation.	iii)	Ingestion. iv) All of the above.
	e)	Standard precautions include:		
		i) Appropriate use of PPE.	ii)	Appropriate use of sharp instruments.
		iii) Hand Hygiene.	iv)	All of the above.
	f) Hospital acquired infection is also called:			
		i) Iatrogenic Infection.	ii)	Idiopathic Infection.
		iii) Nosocomial Infection.	iv)	Non pathogenic Infection.
	g) What is the commonest cause of urinary tract infection?			on?
		i) Escherichia coli.	ii)	Pseudomonas aeruginosa.
		iii) Proteus mirabilis.	iv)	Serratia species.
6. Define Sterilization. What are the difference between Disinfection and Sterilization? Wi				
	on	how to sterilize instruments, linens and rubber-go	ods	after operation. $2+2+6$
7. Write short notes of <i>any three</i> of the following:				3 x 5
a) Principles of specimen collection.				
b) Different modes of transmission of infection.				
c) Universal precautions.				
d) Prevention of urinary tract infection.				
	e)	Importance of documentation.		
8.	Wr	rite very short notes of <i>any three</i> of the following	•	3 x 2
	a)	Color coded waste containers.		
	b)	Importance of hand hygiene.		
	c)	Transportation of sample.		
	d)	Employee safety indicators.		
	e)	Hospital Acquired Infection.		