## 3007W128

Candidate's Seat No

## B.Sc. Sem.-6 Examination

CC - 309

## Health-Hygiene

Time: 2-00 Hours]

C.

Estradiol

July 2021

Max. Marks: 50

1.	<ul><li>(A) Write various mode of action of antibiotics and explain any one in detail.</li><li>(B) Discuss Historical developments in Chemotherapy of diseases.</li></ul>	7 7
2.	<ul><li>(A) Discuss mechanism of drug resistance in microorganisms.</li><li>(B) Explain principle and application of Bioassay.</li></ul>	7 7
3.	<ul><li>(A) Describe history of Physiotherapy and various physiotherapy treatment</li><li>Orthopedic conditions.</li><li>(B) Describe Physiotherapy and exercise recommended for respiratory system</li></ul>	7
	(B) Describe Physiotherapy and exercise recommended for respiratory system	.111. /
4.	<ul><li>(A) Write the benefits and needs of aerobic exercise.</li><li>(B) What is Rehabilitation? Explain the role of Physiotherapy in rehabilitation</li></ul>	7 n. 7
5.	<ul><li>(A) Explain principle of gene therapy giving suitable example.</li><li>(B) Describe sources of stem cells and their therapeutic units.</li></ul>	7 7
6.	<ul><li>(A) Write a note on drug delivery using nanoparticles.</li><li>(B) Explain micro RNA and any one molecular scissor as therapeutic agent.</li></ul>	7 7
7.	<ul><li>(A) Describe types of counseling and stress interpretation.</li><li>(B) Write note on Psychotropic drugs and their effects.</li></ul>	7 7
8.	(A) Write indications, procedures and risk associated with brain stimula treatment.	ition 7
	(B) Write a detailed note on Euthanasia.	7
9.	Answer the following (Any eight)	8
1. Wh	at is meant by antibiotic resistance?	
A.	It means our body has become resistant to the antibiotic	
B. C.	It means the bacteria have developed antibiotic resistance Both (a) and (b)	
D.	None of the above	
2. Wi	hich of the following techniques cannot be used to determine the minin	num
	ntration of an antimicrobial drug against a particular microbe?	
A.	Etest microbroth dilution test	
В. С.	Kirby-Bauer disk diffusion test	
D.	macrobroth dilution test	
3. Wh	ich hormone is known as emergency hormone?	
A.	Insulin	
B.	Thyroxin	

(P.T.6)

D.	Adrenaline
4.T	he antibiotic penicillin was discovered by which of the following researchers?
A.	Emmerich and Low
B.	Gratia and Dath
C. D.	Alexander Flemming
υ.	Vuillemin
5.Tl	ne major molecules responsible for rejection of transplant is
A.	B cells
B.	T cells
C. D.	MHC molecule antibodies
υ.	antibodies
6	is one of the most important aspects of biomaterial-tissue interactions.
A.	Biocompatibility
B.	Bioavailability
C. D.	Bioequivalence Bioluminescence
D.	biolummescence
7.W	hich of the following has the maximum transplantation success rate
A.	autograft
B.	xenograft
C.	allograft
D.	syngeneic graft.
8. So	matic cell gene therapy is used for following types of cell Except:
A.	Bone marrow cells
B.	Blood cells
C.	Skin cells
D.	Sperm cells
9. W	hich media is used in Multiple inhibitory concentration?
A.	Ellinghausen and McCullough Medium
B.	Mueller Hinton Broth
C.	Mannitol Salt Agar
D.	Modified Korthoff's Medium
10. T	he method of post transcriptional gene silencing is particularly useful in
A.	plants
B.	animals
C.	insects
D.	microorganisms
11.Ra	idiation is used to
4.	Destroy healthy tissues surrounding a tumor, preventing the conversion of those
ells	
3.	Kill cancer cells directly via the induction of DNA damage and cell death
	Prevent cancer growth by destroying nearby blood vessels
),	Force normal cells to kill nearby cancer cells

12.The commonly used vector in gene therapy to carry target gene into host ce is	lls		
A. Bacteria			
B. Fungi			
C. Virus			
D. Eukaryotic cell			
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
13 .What is a stem cell?			
A. cell that can make copies of itself and make more specialized types of cell			
B. cell that helps to fight against infections			
C. cell that is specialized			
D. cell that can produce all the cell types of the body			
14 is the first process involved in Biomaterial-Tissue interaction.			
A. Foreign Body Response			
B. Elongation			
C. Adhesion			
D. Replication			
15 .ELISA (enzyme-linked immunosorbent assay) allows for rapid screening a	nd		
quantification of the presence of in a sample.			
A. Protein			
B. Enzyme			
C. Antigen			
D. Amino acid			
16. Bailey and Sarah have been trying to have a baby for over a year. They just found out			
that Sarah's ova are viable, but she is not ovulating on a regular basis. What fertility method are they			
candidates for?			
A. donor ivf			
B. artificial insemination			
C. embryonic transfer			
D. in vitro fertilization			
17. Procedures used to treat infertility are			
A. ICSI – Intracytoplasmic Sperm Injection			
B. IVF – In Vitro Fertilization			
C. IUI – Intrauterine insemination			
D. All of these			
18 are supportive structures used in tissue engineering, these allow the cells	to		
propagate and form a tissue.			
A. Scaffolds			
B. Blood			
C. Endoderm			
D. Bones			

(P.T.O)

M128-4

19.Cell-wall biosynthesis is inhibited by antibiotics by inhibiting the biosynthesis of which of the following?

- A. lipopolysaccharide
- B. cellulose
- C. peptidoglycan
- D. proteins

20. Which of the following statements is false?

- A. Antibodies bind to foreign objects introduced into an organism.
- B. Antibodies can bind to proteins on cancer cells.
- C. Antibodies are composed of four proteins joined in a structure that resembles a "Y".
- D. Antibodies stimulate cancer cells to produce immunotoxins.