

Seat No. : _____

SK-115

September-2020

B.Sc., Sem.-VI

**CC-303 : Health Hygiene
(Modern Therapeutics)**

Time : 2 Hours]

[Max. Marks : 50

- Instructions :** (1) Draw figures where necessary.
(2) Show question number against each answer.
(3) Figures in right indicate marks.
(4) Answer any **three** out of initial **eight** main questions. Question **9** is compulsory.

1. (A) Write various mode of action of antibiotics and explain any one in detail. 7
(B) Discuss historical developments in chemotherapy of diseases. 7
2. (A) Discuss mechanism of drug resistance in microorganisms. 7
(B) Explain principle and applications of bioassay. 7
3. (A) Describe history of physiotherapy and various physiotherapy treatments in orthopaedic conditions. 7
(B) Describe physiotherapy and exercise recommended for respiratory system. 7
4. (A) Write the benefits and need of aerobic exercise. 7
(B) What is rehabilitation? Explain the role of physiotherapist in rehabilitation. 7

5. (A) Explain principle of gene therapy giving suitable example. 7
- (B) Describe sources of stem cells and their therapeutic uses. 7
6. (A) Write a note on drug delivery using nanoparticles. 7
- (B) Explain micro RNA and any one molecular scissor as therapeutic agent. 7
7. (A) Describe types of counselling and stress interpretation. 7
- (B) Write note on psychotropic drugs and their effects. 7
8. (A) Write indications, procedure and risk associated with brain stimulation treatment. 7
- (B) Write a detailed note on Euthanasia. 7
9. Answer in short : (Any **eight**) 8
- (A) What is the target site for antibiotic Fluroquinolones ?
- (B) What is meaning of broad spectrum antibiotics ?
- (C) List intravenous methods to deliver chemotherapy drugs.
- (D) What is induced immunosuppression ?
- (E) Define MIC.
- (F) When bioassay is preferred over chemical assay ?
- (G) Heating of skin and subcutaneous tissues happens in superficial heat therapy.
(True/False)
- (H) Explain Isokinetic exercise.

- (I) What assessment should be done before exercise ?
 - (J) Explain restrictive IMT.
 - (K) Runner knee and jumper knee are an example of _____ sports injury.
 - (L) Write the aim of physiotherapy.
 - (M) Give any two examples of steroid hormone.
 - (N) Differentiate between gene therapy and oligonucleotide therapy.
 - (O) Antisense technology is a control of translation. (True/False)
 - (P) What is 'scaffold' in the context of tissue engineering ?
 - (Q) What is homologous insemination or AIH ?
 - (R) What is cognitive psychological analysis ?
 - (S) Sedatives increases the activity of glutamate neurotransmitter. (True/False)
 - (T) Major tranquilizers are called anti _____ drug.
 - (U) Define Leucotomy.
 - (V) What are affective disorders ?
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