

- Instructions:** 1) draw figures where necessary.
 2) show question number against each answer.
 3) Figures in right are marks.
 4) Answer any **Three** out of initial **Eight** main questions, Question 9 is compulsory.

Section-I

1. (A) What is bioassay? Explain its principle and Discuss its advantages and disadvantages. (07)
 (B) Explain Antimicrobial drugs and their activity in detail. (07)
2. (A) Mechanism of acquired drug Resistance. (07)
 (B) What is Chemotherapy? Explain its history in detail. (07)
3. (A) What is sports injury Rehabilitation and how it helps? (07)
 (B) Explain neurological Physiotherapy in detail. (07)
4. (A) Explain the history of Physiotherapy. (07)
 (B) Explain chest physiotherapy in detail. (07)
5. (A) Define Organ transplantation in details with its types. (07)
 (B) What is Artificial Insemination explain in detail. (07)
6. (A) Explain in detail: Stem cell. (07)
 (B) What are the applications for Nanotechnology? (07)
7. (A) Explain in detail: Psychological Analysis (07)
 (B) What is mean by Counselling? Give detail information about its types. (07)
8. (A) Explain stress in details (07)
 (B) Give detail note on Euthanasia. (07)

Section-II

9. Answer in short: (Any Eight) (08)
 1. Define: Antibiotics.
 2. Name any two alkylating agents in classification of chemotherapeutic drugs.

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3. Explain any one use of cyclosporine.
 4. What is the future scope in Physiotherapy?
 5. Define: Hormones.
 6. For which Organ or tissue transplant process the donor is deceased?
 7. What is serum?
 8. Give any one difference between DNA and RNA.
 9. Define: nucleotide
 10. What is the function of MIRNA?
 11. What are the main features for medical applications for Biomaterials?
 12. Define: Tranquilizers.
 13. What is IVF?
 14. Explain the types of Surrogacy.
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