

## Dental technology 4th

Course Title: General pharmacology II

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### Note:

- Paper is divided into two questions, Q1 includes 15 MCQs and Q2 includes 15 True/False statements
  - Each MCQ or T/F carry one mark with grand total of 30 marks
  - **Highlight** or underline the appropriate option
  - Before marking, read every statement carefully to understand the actual sense of question
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### Q1. Select the most appropriate option for the following questions

1. Alkylating agents shows its mechanism via
  - a. Cellular toxicity
  - b. Energy suppression
  - c. **Interfering with nuclear matter**
  - d. None of the above
2. Addition of adrenaline with LAs has advantage of
  - a. Prolong duration
  - b. Reduced systemic toxicity
  - c. Decreased bleeding
  - d. All of the above
  - e. **Both a. and c.**
3. Which class of chemotherapeutic drugs accumulate itself as false DNA/RNA while its synthesis
  - a. **Antimetabolites**
  - b. Plant alkaloids
  - c. Hormones

- d. Both a. and b.
4. As antineoplastic drugs, antibiotics show its effects by
- a. Making highly reactive free radical
  - b. Interfering with DNA/RNA
  - c. Both a. and b.
  - d. None of the above
5. At inflamed and infected tissues the pH is lower which causes the absorption of surface anesthetics
- a. To be enhanced
  - b. To be reduced
  - c. No effect
  - d. Depend on inflammation
6. Mechanistically, Which of the following drug/s primarily interfere with specific enzymes
- a. Amprenavir
  - b. Oseltamivir
  - c. Foscarnet
  - d. All of the above
7. A person infected with *tuberculosis bacilli* as per your knowledge what s should be first choice of drug for him
- a. Tetracycline
  - b. Erythromycin
  - c. Isoniazid
  - d. None of the above

8. Which drug use targeting mechanism

- a. Vincristine
- b. Rituximab
- c. Ifosfamide
- d. Thioguanine

9. Abnormal protein synthesis are involved with

- a. Sulbactam
- b. Oxacillin
- c. Gentamycin
- d. None of the above

10. Cancer can be cured with

- a. Positive lifestyle changes
- b. Chemotherapy
- c. Surgery
- d. Both b. and c.

11. Ribosomal interactions are involved with

- a. Sulbactam
- b. Oxacillin
- c. Gentamycin
- d. Both a. and b.

12. As antibacterial agent, Super coiling of DNA is inhibited by

- a. Minocycline

- b. Tazobactam
- c. Neomycin
- d. None of the above

13. If this stage is inadvertently reached during anesthesia, respiratory and circulatory support must be provided or the patient will die

- a. Stage I
- b. Stage II
- c. Stage III
- d. Stage IV

14. Folic acid metabolism is often hampered by

- a. Tetracyclines
- b. Sulfonamide
- c. Ciprofloxacin
- d. Both B. and c.

15. Which drug can adversely increase the weight of patient

- a. Enfuvirtide
- b. Amprenavir
- c. Zanamivir
- d. None of the above

**Q2. For the following questions, encircle "T" for True or "F" for False**

1. Tetracycline disrupt the architecture and integrity of membrane by reducing peptidoglycan production (F/T) **False**
2. After absorption, procaine is poorly bound to plasma proteins, hence showing prolonged duration of action (F/T) **False**
3. Vincristine and griseofulvin interfere with the process of mitosis (T/F) **True**
4. Gastrointestinal distress is most common adverse effect associated with orally administered drug (T/F) **True**
5. Majority of the antifungal agents are administered systemically (T/F) **True**
6. Mainly, local anesthetics increase the duration of inactivated state of receptor by blocking voltage gated K<sup>+</sup> channel at neuronal membrane (T/F) **True**
7. First generation cephalosporins have lower effect on Gram negative as compared with fourth generation cephalosporins (T/F) **True**
8. Ultimate effect of penicillins is to retard the growth of bacteria (T/F) **False**
9. In any case of infection ceftriaxone always comes as primary agent as compared to amoxicillin (T/F) **False**
10. Amantadine prevents the release of viral nuclear matter at preliminary steps such as uncoating (T/F) **True**
11. Sciatic nerve is anesthetized by injecting drug into lumbar spine at location of 3-4 (T/F) **True**
12. Levofloxacin impairs normal DNA structure by inhibiting specific enzymes i.e. DNA gyrase etc. (T/F) **True**
13. Terbinafine inhibits the squalene epoxidase in the cell membrane of bacteria (T/F) **True**

14. Vestibular or cochlea toxicity is mainly associated with streptomycin and gentamycin (T/F) True

15. Caspofungin, amphotericin B and terbinafine incorporate itself into ergosterol and change cell membrane structure (T/F) True