**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**

 **Q1. Select the most appropriate option for the following questions**

* **1.** Alkylating agents shows its mechanism via
* Cellular toxicity
* Energy suppression
* **Interfering with nuclear matter**
* None of the above
* **2.** Addition of adrenaline with LAs has advantage of
* Prolong duration
* Reduced systemic toxicity
* Decreased bleeding
* **All of the above**
* Both a. and c.
* **3.** Which classof chemotherapeutic drugs accumulate itself as false DNA/RNA while its synthesis
* Antimetabolites
* Plant alkaloids
* Hormones
* **Both a. and b**.
* **4.** As antineoplastic drugs, antibiotics show its effects by
* Making highly reactive free radical
* Interfering with DNA/RNA
* **Both a. and b.**
* None of the above
* **5.** At inflamed and infected tissues the pH is lower which causes the absorption of surface anesthetics
* To be enhanced
* **To be reduced**
* No effect
* Depend on inflammation
* **6.** Mechanistically**,** Which of the following drug/s primarily interfere with specific enzymes
* Amprenavir
* Oseltamivir
* Foscarnet
* **All of the above**
* **7.** A person infected with *tuberculosis bacilli* as per your knowledge what should be first choice of drug for him
* Tetracycline
* Erythromycin
* **Isoniazid**
* None of the above
* **8.** Which drug use targeting mechanism
* Vincristine
* **Rituximab**
* Ifosfamide
* Thioguanine
* **9.** Abnormal protein synthesis are involved with
* Sulbactam
* Oxacillin
* Gentamycin
* **None of the above**
* **10.** Cancercan be cured with
* Positive lifestyle changes
* Chemotherapy
* Surgery
* **Both b. and c.**
* **11.** Ribosomal interactions are involved with
* Sulbactam
* Oxacillin
* **Gentamycin**
* Both a. and b.
* **12.** As antibacterial agent, Super coiling of DNA is inhibited by
* Minocycline
* Tazobactum
* Neomycin
* **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
* Stage I
* Stage II
* Stage III
* **Stage IV**
* **14.** Folic acid metabolism is often hampers by
* Tetracyclines
* **Sulfonamide**
* Ciprofloxacin
* Both B. and c.
* **15.** Which drug can adversely increase the weight of patient
* Enfuvirtide
* **Amprenavir**
* Zanamivir
* None of the above

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

* Tetracycline disrupt the architecture and integrity of membrane by reducing peptidoglycan production **(False)**
* After absorption, procaine is poorly bound to plasma proteins, hence showing prolong duration of action (**False**)
* Vincristine and griseofulvin interfere with the process of mitosis **(True)**
* Gastrointestinal distress is most common adverse effect associated with orally administered drug (**True**)
* Majority of the antifungal agents are administered systemically **(False)**
* Mainly, local anesthetics increase the duration on inactivated state of receptor by blocking voltage gated K+ channel at neuronal membrane **(False)**
* First generation cephalosporins have lower effect on Gram negative as compared with fourth generation cephalosporins **(True)**
* Ultimate effect of penicillins is to retard the growth of bacteria **(False)**
* In any case of infection ceftriaxone always comes as primary agent as compared to amoxicillin **(False)**
* Amantadine prevents the release of viral nuclear matter at preliminary steps such as uncoating **(True)**
* Sciatic nerve is anesthetized by injecting drug into lumbar spine at location of 3-4 **(True)**
* Levofloxacin impair normal DNA structure by inhibiting specific enzymes i.e. DNA gyrase etc. **(True)**
* Terbinafine inhibits the squalene epoxidase in the cell membrane of bacteria **(False)**
* Vestibular or cochlea toxicity is mainly associated with streptomycin and gentamycin **(True)**
* Caspofungin, amphotericin B and terbinafine incorporate itself into ergosterol and change cell membrane structure **(True)**