

Second year B.D.S Examination – August 2019  
General & Dental Pharmacology & Therapeutics

Time duration: 03 hours  
 Date : 27-08-19

Code:- 9699

Maximum marks: [70]

Note: Figures in brackets [ ] indicate marks allotted.

SECTION-1

- Q-1 Enlist transmucosal routes of drug administration. Describe advantages and disadvantages of oral route. [4+3+3] [10]
- Q-2 Give two examples of ACE inhibitors. Describe their mechanisms of action, therapeutic uses and adverse effects. [2+2+3+3] [10]
- OR
- Q-2 Classify nitrates. Describe their mechanisms of action, therapeutic uses and adverse effects. [2+2+3+3] [10]
- Q-3 Write short notes on any three of the following [09]
- [a] Pharmacological effects and therapeutic uses of adrenaline. [2+1]  
 [b] Anticholinesterase agents  
 [c] Therapeutic uses and adverse effects of aspirin. [1.5+1.5]  
 [d] Local anaesthetic agents
- Q-4 Attempt all of the following [06]
- [1] Following is a cardioselective beta blocker  
 [a] Timolol [b] Propranolol [c] Metoprolol [d] Labetalol
- [2] The ability of a drug to produce a clinical response denotes its  
 [a] potency [b] efficacy [c] safety [d] bioavailability
- [3] Following atropine substitute is used in ophthalmic practice  
 [a] pirenzepine [b] ipratropium [c] tropicamide [d] glycopyrrolate
- [4] Following is a transdermal route of drug administration  
 [a] transrectal [b] innuaction [c] sublingual [d] intra-articular
- [5] Oral anticoagulants inhibit synthesis of all the following clotting factors except  
 [a] factor V [b] factor VII [c] factor IX [d] factor X
- [6] Heparin is contraindicated in all of the following except  
 [a] thrombocytopenia [b] bacterial endocarditis  
 [c] disseminated intravascular coagulation [d] peptic ulcer

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P.T.O.....

SECTION-2

Q-5 Classify Penicillins. Describe mechanism of action and therapeutic uses of amoxicillin. [10]  
[3+3+4]

Q-6 Describe pharmacological effects and therapeutic uses of glucocorticoids. Enlist their  
contraindications. [5+3+2] [10]

OR

Q-6 Describe pharmacological effects and therapeutic uses of morphine. Enlist its  
contraindications. [5+2+3] [10]

Q-7 Write short notes on any three of the following [09]

- [a] Antiseptics in dental practice
- [b] Pharmacological effects, therapeutic uses and adverse effects of diazepam [1+1+1]
- [c] Mechanism of actions, therapeutic uses and adverse effects of aminoglycosides [1+1+1]
- [d] Mechanism of action, therapeutic uses and adverse effects of ciprofloxacin [1+1+1]

Q-8 Attempt all of the following [06]

- [1] Metformin in diabetes mellitus acts by following mechanisms except  
[a] stimulating insulin release [b] stimulating glucose uptake by muscle & fat  
[c] suppressing hepatic gluconeogenesis [d] decreasing intestinal absorption of glucose
- [2] One of the following agent is recommended by WHO for treatment of H.pylori in peptic ulcer.  
[a] omeprazole [b] rabeprazole [c] metoclopramide [d] ranitidine
- [3] Following are true for metoclopramide except  
[a] less effective in motion sickness [b] cause hyperprolactinemia  
[c] useful in morning sickness [d] cause gynaecomastia
- [4] Aminoglycosides act by  
[a] inhibiting beta lactamase enzyme [b] inhibiting folate synthesis  
[c] inhibiting cell wall synthesis [d] inhibiting protein synthesis
- [5] Following are volatile liquid anesthetic agents except  
[a] ketamine [b] halothane [c] ether [d] isoflurane
- [6] Salbutamol acts by;  
[a] mast cell stabilization [b] phosphodiesterase inhibition  
[c] beta-2 receptor agonism [d] muscarinic receptor antagonism

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\*\* Answer key to MCQs:

Section – 1 → Q-4 → [1] = [c], [2] = [b], [3] = [c],  
[4] = [b], [5] = [b], [6] = [c].

Section -- 2 → Q-8 → [1] = [a], [2] = [a], [3] = [c],  
[4] = [d], [5] = [a], [6] = [c].

