

August, 2015

STATE MEDICAL FACULTY OF WEST BENGAL

Preliminary Examinations
for Diploma in Cath-Lab Technician : DCLT Course

Paper – I
Anatomy, Physiology, Pharmacology

Question No. 1 & 2 are Compulsory.

Attempt any (Five) 5 Questions from Question No. 3 to 9

Time – 3 hours

Full Marks – 80

Q1 Choose the best Answer for the following:-

5 X 1 = 5

- 1) In normal heart all are true, except:
 - a) LV is thicker than RV
 - b) LV has moderator band
 - c) LV is smoother than RV
 - d) Tricuspid valve drains into RV
- 2) Obtuse marginal artery is branch of:
 - a) LMCA
 - b) LAD
 - c) RCA
 - d) LCX
- 3) Vitamin K dependent clotting factors are all, except:
 - a) VII
 - b) VIII
 - c) IX
 - d) X
- 4) All are features of cardiac myocytes, except:
 - a) Chronotropy
 - b) Atopy
 - c) Bathmotropy
 - d) Inotropy
- 5) All of these are used in dyslipidemia, except:
 - a) Niacin
 - b) Warfarin
 - c) Fibrate
 - d) Statin

Q2. Write **True (T)** or **False (F)**:-

5 x 1 = 5

- a) Parasympathetic stimulation produces tachycardia. (T/F)
- b) Number of pulmonary veins is 4. (T/F)
- c) Right common carotid artery is a branch of right subclavian artery. (T/F)
- d) Cardiac index = Cardiac output / Body surface area. (T/F)
- e) Enoxaparin is a high molecular weight analogue of heparin. (T/F)

Contd.....P2/

Paper – I

Anatomy, Physiology, Pharmacology

Attempt any (Five) 5 Questions from Question No. 3 to 9

5 X 14 = 70

- Q3. Discuss the specialized conducting system of the heart & conduction disturbances at various levels. 14
- Q4. Give a short account of the branches of thoracic aorta & their clinical importance. 14
- Q5. Discuss the action potential basis of autorhythmicity & impulse propagation. 14
- Q6. Discuss the role of RAAS system in relation to control of blood pressure. 14
- Q7. Discuss the various classes of antihypertensive drugs with their mechanisms of action, common side effects & precautions. 14
- Q8. Discuss the medical management of atrial fibrillation & its common complications. What are the surgical procedures for atrial fibrillation? 14
- Q9. Write short notes on: 5+4+5=14
- a) Inotropes
 - b) AV node
 - c) Fibrinolytic pathway & various agents for thrombolysis.

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Paper – II
Microbiology, Preventive Cardiology

Question No. 1 & 2 are compulsory.

Attempt any (Five) 5 Questions from Question No. 3 to 9:

Time – 3 hours

Full Marks – 80

Q1 Choose the best Answer for the following questions:-

5 X 1 = 5

- 1) Acute infective endocarditis is usually caused by:
 - a) Staphylococcus
 - b) Enterococcus
 - c) Streptococcus
 - d) Pneumococcus
- 2) Chagas' disease is caused by:
 - a) Trypanosoma cruzi
 - b) Mycobacterium tuberculosis
 - c) Mycobacterium leprae
 - d) Corynebacterium diphtherae
- 3) Drug used for prevention of embolism in atrial fibrillation:
 - a) Digoxin
 - b) Amiodarone
 - c) Frusemide
 - d) Warfarin
- 4) All are regarded as major risk factors for CAD, except:
 - a) Smoking
 - b) Diabetes
 - c) Male sex
 - d) High HDL-C levels
- 5) All are components of metabolic syndrome, except:
 - a) Central obesity
 - b) Elevated fasting plasma glucose
 - c) Elevated LDL-cholesterol levels
 - d) Elevated triglyceride levels

Q2. Write **True (T)** or **False (F)**:-

5 x 1 = 5

- a) Rheumatic heart disease is an immunologically mediated disease. (T/F)
- b) Intravascular stent is sterilized by gamma radiation. (T/F)
- c) PPIs are used to prevent gastric erosions due to aspirin. (T/F)
- d) Saturated fat is good for CAD. (T/F)
- e) Post-menopausal women are at increased risk of CAD. (T/F)

Contd.....P2/

Paper – II

Microbiology, Preventative Cardiology

Attempt any (Five) 5 Questions from Question No. 3 to 9:

5 X 14 = 70

- Q3. Classify diabetes mellitus. What are the complications of long-standing diabetes mellitus? Discuss the non-pharmacological management of diabetes mellitus. 14
- Q4. What are the traditional & novel risk factors for CAD? What are the modifiable & non-modifiable risk factors for CAD? Enumerate them & point out the salient strategies to modify the modifiable ones. 14
- Q5. Discuss the adverse health consequences of long-term smoking. Discuss the strategies for smoking cessation. 14
- Q6. Discuss the methods of disinfection. How do you disinfect your operation theatre? 14
- Q7. Mention the bacteria responsible for acute rheumatic fever. Discuss the etiopathogenesis of rheumatic fever. Enumerate the criteria for diagnosis of acute rheumatic fever. 14
- Q8. Discuss post-exposure prophylaxis of HIV. 14
- Q9. Write short notes on: 5+4+5=14
- a) Vitamin K antagonists
 - b) Rheumatic fever prophylaxis
 - c) Pacemaker pocket infection.
