**KENYA MEDICAL TRAINING COLLEGE – NYAMIRA**

**END OF YEAR I SEMESTER II EXAMINATION**

**MARCH 2017 KRCHN CLASS (PRE-SERVICE)**

**CARDIOVASCULAR EXAMINATION**

DATE: ……………………. TIME:…………………..

**INSTRUCTIONS**

1. Read the questions carefully and answer only what is asked.
2. Enter your examination number and question number on each page used.
3. ALL questions are compulsory.
4. For part 1 (MCQs), write the answer in the spaces provided on the answer booklet and each MCQ is one (1) mark.
5. For Part 2 (SHORT ANSWER QUESTIONS), answer the questions following each other.
6. For Part 3 (LONG ANSWER QUESTIONS), answer to each question MUST start on a separate page.
7. Omission of and or wrong numbering of a question or part of the question will result in 10% deduction of the marks scored from the relevant part.
8. Do NOT use a pencil.
9. Mobile phones are NOT allowed in the examination hall.

For Examiner:

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| --- | --- | --- | --- | --- |
| **MCQS** | **SAQS** | **LAQS 1** | **LAQS 2** | **TOTAL** |
|  |  |  |  |  |

**PART ONE: MCQS (MULTIPLE CHOICE QUESTIONS) CARDIOVASCULAR. –10 MARKS**

Q.1. The congestive cardiac failure is characterized with:

1. Mitral vulve failure
2. Biventricular failure
3. Enlargement of the heart
4. Tricuspid valve failure

Q.2. The following are objectives for conservative management in arteriosclerosis except:

1. Protecting the extremity from trauma
2. Slowing the progression of arteriosclerosis
3. To increase coagulation
4. Improving collateral circulation

Q.3. The following are aetiological causes of thrombophlebitis except:

1. Stasis of venous flow
2. Hypocoagulability of the blood
3. Damage of the endothelia lining of the vein
4. Hypercoagulability of the blood

Q.4. The following is a non modifiable risk factor for coronary heart disease:

1. Age
2. Hypertension
3. Obesity
4. Smoking

Q.5. The common complications of rheumatic heart diseases are:

1. Carditis, cardiac infarction, cirrhosis
2. Stenosis, carditis, cirrhosis
3. Carditis, stenosis, cardiac infarction
4. Carditis, ventricular failure

Q.6. The following are factors predisposing to endothelial inflammation/damage except?

1. Burns
2. Diabetes
3. Bone fractures
4. Presence of intravenous catheter in the same site for less than 6 hours

Q.7. The following is an indication for aspirin use:

1. Peptic ulcer disease
2. Hypocoagulability of blood
3. Bleeding disorders
4. Diabetes

Q.8. The following are clinical manifestation of right sided heart failure except:

1. Splenomegaly
2. Dyspnoea
3. Distended jugular vein
4. Hepatomegaly

**PART ONE: MCQS (MULTIPLE CHOICE QUESTIONS) CARDIOVASCULAR. –10 MARKS**

Q.9. The following are complication of congestive cardiac failure except:

1. Pulmonary oedema
2. Pleural effusion
3. Decompensated heart failure
4. Carditis

Q.10. The following are types of chronic valvular disease except:

1. Mitral valve disease
2. Aortic valve disease
3. Pulmonary valve disease
4. Ventricular valve disease

**PART TWO: SAQS (SHORT ANSWER QUESTIONS) CARDIOVASCULAR – 20 MARKS**

Q.1. Briefly explain the Classification of aneurisms 4 marks

* True aneurism – saccular aneurism, fusiform
* False aneurism

Q.2. Outline 4 modifiable risk factors of coronary heart disease 4 marks

* Smoking
* Obesity
* Hypertension

Q.3. State four clinical manifestations of pulmonary embolism 4 marks

* Rapid weak pulse
* Onset of dyspnea
* Cough chest pain
* Emboli cause patient to collapse
* Low blood pressure

Q.4. Classify congestive cardiac failure 4 marks

Q.5. Discuss 4 investigations used in the diagnosis of arteriosclerosis 4 marks

**PART THREE: (LAQS) LONG ANSWER QUESTIONS) RESPIRATORY CONDITIONS – 23 MARKS**

Q.1. MS A is admitted to the female medical ward with severe hypertension.

1. Define hypertension – is high atrial pressure of above 120 dystolic and more than 90 systolic. 2 marks
2. Explain the classification of hypertension according to aetiology 4 marks

* Primary hypertension ,affects ages between 30 and 50.
* Secondary hypertension, elevated bp which is corrected through surgery and medications.

1. Describe 4 nursing diagnoses of MS A 4 marks

* Patient client blood pressure measurement.
* Routine urinalysis
* History taking
* Measurement of serum levels

1. Discuss the medical and nursing management of MS A 8 marks

Provide bed rest and a cormfotable place , ensuring the patient is cormfatable .Perfom thorough investigation to identify the cause of hypertension , observe temperature , pressure and pulse after every 4 hours. Monitor the nervous system for complications such as confusion headache and vomiting

Monitor fluid intake as well as input and output chart. Give the drugs as per the doctors prescription such as vasodilators , beta blockers , alpha blockers by carefuly monitoring the blood pressure, since patient is in complete bed rest provide hygiene, elimination and feeding.

Reassure the patient to relieve anxiety.

1. List 4 complications of MS A. 2 marks

* Hypertension encephalopathy
* Myocardial infarction
* Intracranial haemorrhage
* Dissecting aortic aneurism
* Unstable angina
* Congestive heart failure
* Retinal Damage
* Renal failure
* Acute left ventricular failure (pulmonary edema).