

DR. NTR UNIVERSITY OF HEALTH SCIENCES :: AP :: VIJAYAWADA – 520 008

FINAL M.B.B.S. PART – II DEGREE EXAMINATION – DECEMBER, 2024

**GENERAL MEDICINE – PAPER – II**

SET-D (Multiple Choice Questions)

Time: 20 Minutes

Max. Marks: 20

Note: Answer all questions

**SECTION – I (MCQs – 20 MARKS)****1x20=20**

- 1) Which of the following sexually transmitted infections can be diagnosed with a 'darkfield' microscopy?
- Chlamydia trachomatis
  - Treponema pallidum (syphilis)
  - Neisseria gonorrhoeae
  - Trichomonas vaginalis
- 2) A patient presents with sudden-onset chest pain, shortness of breath, and a feeling of impending doom. The ECG shows ST-segment depression in leads II, III, and aVF. What is the most likely diagnosis?
- Unstable angina
  - Non-ST elevation myocardial infarction (NSTEMI)
  - Pulmonary embolism
  - Aortic dissection
- 3) Which of the following is a characteristic feature of primary syphilis?
- Painful genital ulcer with purulent discharge
  - Painless genital ulcer (chancre)
  - Painful inguinal lymphadenopathy
  - Genital warts
- 4) What is the primary mechanism of action of ACE inhibitors in treating heart failure?
- Inhibition of sodium reabsorption in the kidneys
  - Reduction of afterload by vasodilation
  - Inhibition of platelet aggregation
  - Increased myocardial contractility
- 5) Which of the following medications is used for rate control in atrial fibrillation?
- Digoxin
  - Beta-blockers
  - Anticoagulants
  - All of the above
- 6) The most common primary malignant brain tumor in adults is:
- Glioblastoma multiforme
  - Meningioma
  - Medulloblastoma
  - Pituitary adenoma

- 7) What is the most likely cause of a widened pulse pressure in a 60-year-old patient with a history of hypertension?
- Aortic stenosis
  - Aortic regurgitation
  - Mitral stenosis
  - Pulmonary hypertension
- 8) A 30-year-old woman presents with sudden-onset severe headache, nausea, vomiting, and a stiff neck. The most likely diagnosis is:
- Tension headache
  - Migraine
  - Subarachnoid hemorrhage
  - Cluster headache
- 9) A 25-year-old woman presents with generalized weakness and diplopia. She reports that the symptoms worsen as the day progresses and improve at rest. On examination, she has ptosis and a positive ice-pack test. What is the most likely diagnosis?
- Multiple sclerosis
  - Myasthenia gravis
  - Guillain-Barré syndrome
  - Amyotrophic lateral sclerosis (ALS)
- 10) Which of the following is a first-line treatment for obsessive-compulsive disorder (OCD)?
- Benzodiazepines
  - Cognitive-behavioral therapy
  - Antipsychotics
  - Selective serotonin reuptake inhibitors (SSRIs)
- 11) Which of the following is a characteristic feature of multiple sclerosis?
- Progressive muscle weakness
  - Relapsing and remitting episodes of neurological deficits
  - Presence of positive Babinski sign only
  - Gradual, steady progression of symptoms without remissions
- 12) A patient presents with intense fear of being in crowded places. She avoids public transportation and large gatherings. This is most consistent with:
- Social anxiety disorder
  - Panic disorder
  - Agoraphobia
  - Specific phobia
- 13) A 35-year-old woman presents with a sudden onset of intensely pruritic vesicles on her hands and feet. The lesions are grouped and have a 'dew drop on a rose petal' appearance. What is the most likely diagnosis?
- Chickenpox (Varicella)
  - Herpes simplex virus infection
  - Hand, foot, and mouth disease
  - Impetigo

14) Which of the following conditions is characterized by the presence of 'honeycomb lung' on chest imaging?

- a. Asthma
- b. Chronic bronchitis
- c. Pulmonary fibrosis
- d. Pneumonia

15) Which of the following is the most appropriate pharmacological treatment for attention-deficit hyperactivity disorder (ADHD) in adults?

- a. Lithium
- b. Methylphenidate
- c. Antipsychotics
- d. Selective serotonin reuptake inhibitors (SSRIs)

16) Which of the following conditions is characterized by the presence of a 'herald patch' followed by the development of a 'Christmas tree' pattern of erythematous lesions?

- a. Psoriasis
- b. Pityriasis rosea
- c. Lichen planus
- d. Tinea corporis

17) Which of the following conditions is most likely to present with 'digital clubbing'?

- a. Asthma
- b. Chronic obstructive pulmonary disease (COPD)
- c. Interstitial lung disease
- d. Pulmonary embolism

18) A patient with chronic kidney disease presents with bone pain and deformities. His phosphate and calcium levels are abnormal. What is the most likely cause of his condition?

- a. Osteoarthritis
- b. Renal osteodystrophy
- c. Paget's disease
- d. Osteoporosis

19) A 40-year-old man presents with shortness of breath, pleuritic chest pain, and a history of deep vein thrombosis (DVT). His chest X-ray shows no consolidation. What is the most likely diagnosis?

- a. Pulmonary embolism
- b. Pneumothorax
- c. Pneumonia
- d. Pleural effusion

20) Which of the following is the first-line treatment for osteoporosis in postmenopausal women?

- a. Bisphosphonates
- b. Parathyroid hormone analogs
- c. Calcium supplements
- d. Calcitonin

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