

Q.P.CODE:M102B030

Dr. YSR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

M.B.B.S. DEGREE EXAMINATION – JANUARY, 2024

SECOND M.B.B.S. EXAMINATION

MICROBIOLOGY PAPER-I (Theory Questions)

Time: 2 Hour 40 Minutes

Max. Marks: 80

Note: Answer all questions. Draw a neat diagram wherever necessary

SECTION-II (THEORY QUESTIONS - 80 MARKS)

WRITE ESSAY ON THE FOLLOWING:

2X15=30

- 1) Define hyper sensitivity reaction. Classify hyper sensitivity reactions. Describe in detail about immune complex diseases (Type-III), delayed hyper sensitivity (Type-IV) and add a note on SHWARTZMAN reaction (1+3+4+5+2)
- 2) A young female from a slum area presents with complaints of abrupt onset of high fever, headache, muscle pains, joint pains and epistaxis. Lymphadenopathy and rash on chest were found on physical examination. Blood cell count revealed thrombocytopenia.
 - a. What is your diagnosis
 - b. What is the etiological agent
 - c. Describe the pathogenesis, clinical manifestations of disease
 - d. Write about laboratory diagnosis

WRITE SHORT NOTES ON THE FOLLOWING:

10X5=50

- 3) Anti-microbial resistance
- 4) Chemical disinfectants
- 5) Diarrheagenic Escherichia coli
- 6) Helicobacter pylori infections
- 7) Amoebic liver abscess
- 8) A patient attended OPD clinic and complaining 3 episodes of vomiting after taking meal. Vomiting contains food particles without presence of blood. On history she had abdominal pain in the last one week and also episodes of vomiting. No history of fever. In blood investigations HBsAg is positive. How do you proceed with the laboratory investigations for hepatitis B viral infection.
- 9) Gas gangrene
- 10) Laboratory diagnosis of leprosy
- 11) Actinomycosis
- 12) Empathy towards patients

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M.B.B.S. DEGREE EXAMINATION – JANUARY, 2024
SECOND M.B.B.S. EXAMINATION
MICROBIOLOGY PAPER-II
(Theory Questions)

Time : 2 Hour 40 Minutes

Max. Marks: 80

Note: Answer all questions. Draw a neat diagram wherever necessary.

SECTION-II (THEORY QUESTIONS - 80 MARKS)

WRITE ESSAY ON THE FOLLOWING:

2X15=30

- 1) A 6 years old boy brought to the ENT OPD with a history of fever and sour throat for past 2 days. His throat examination revealed pus on inflamed tonsils. Throat swab showed Gram positive cocci in chains along with pus cells. Culture on blood agar showed beta haemolytic pinpoint colonies.
 - a. What is your provisional diagnosis
 - b. What is the pathogenesis of the above disease
 - c. Discuss laboratory investigations
 - d. Write a note on treatment
- 2) A young sexually active male of 25 years presented with a single, painless and indurated ulcer on shaft of the penis with a duration of 2 weeks. He gives a history of promiscuous behavior. His serum was positive for reagin antibody.
 - a. What is the provisional diagnosis
 - b. What is the pathogen responsible
 - c. Discuss laboratory investigations to confirm the diagnosis
 - d. Discuss pathogenesis and differential diagnosis
 - e. Write a note on treatment and prevention

WRITE SHORT NOTES ON THE FOLLOWING:

10X5=50

- 3) Cryptococcal meningitis
- 4) Toxoplasma encephalitis
- 5) Tetanus prevention
- 6) A 7 year old was brought to the OPD with bilateral swelling of the face, local pain and tenderness. Severe pain on salivation
 - a. What could be the clinical condition
 - b. What is the probable causative agent
 - c. What is the mode of infection
 - d. Complications of the condition
 - e. Mention the vaccine available for this virus (1+1+1+1+1)
- 7) Pneumocystis pneumonia
- 8) Laboratory diagnosis of urinary tract infection
- 9) Oncogenic viruses
- 10) Zygomycosis
- 11) Tularaemia
- 12) In the midnight the micro laboratory receives sputum and CSF specimens from a patient for culture. The technician already processing a huge load of investigations, therefore he informed the clinical team that these specimens can only be processed on the next day. Discuss briefly on Respect for patient sample.

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Dr YSR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA – 8
M.B.B.S. DEGREE EXAMINATION – JANUARY, 2024
SECOND M.B.B.S. EXAMINATION

PHARMACOLOGY PAPER-II

(Theory Questions)

Time : 2 Hour 40 Minutes

Max. Marks : 80

Answer all questions. Draw a neat diagram wherever necessary

SECTION-II (THEORY QUESTIONS – 80 MARKS)

WRITE ESSAY ON THE FOLLOWING:

2X15=30

- 1) Classify anti-malarial drugs. Write the mechanism of action, uses and adverse effects of chloroquine. What is the role of primaquine in malaria (4+2+3+3+3)
- 2) Classify oral hypoglycemic agents. Write the mechanism of action, uses and adverse effects of Glimepiride. Discuss the management of diabetic ketoacidosis (4+2+3+2+4)

WRITE SHORT NOTES ON THE FOLLOWING:

10X5=50

- 3) Write the rationale for combined use of antimicrobials with suitable examples
 - 4) Explain the mechanism of action, uses and adverse effects of methotrexate
 - 5) What is the rationale for uses of drugs in diarrhea
 - 6) Write the mechanism of action and uses of albendazole
 - 7) Write the advantages of azithromycin over erythromycin
 - 8) Compare and contrast Low Molecular Weight (LMW) heparin and unfractionated heparin
 - 9) A 30 year old diabetic patient has been prescribed injection insulin for daily use. How will you communicate with her regarding the use of insulin
 - 10) Enumerate and discuss the role of inhaled steroids in bronchial asthma
 - 11) A 45 year old business man who travels a lot for his work complains of lower abdominal pain with intermittent episodes of diarrhea and constipation. He has been diagnosed to have Inflammatory Bowel Disease (IBD). Write the drugs used in management of IBD and give the rationale for their use
 - 12) Define chelating agent. Discuss management of copper poisoning
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M.B.B.S. DEGREE EXAMINATION – JANUARY, 2024
SECOND M.B.B.S. EXAMINATION
PHARMACOLOGY -PAPER-I
(Theory Questions)

Time : 2 Hours 40 Minutes

Max. Marks : 80

Note : Answer all questions

Draw a neat diagram wherever necessary

SECTION-II (THEORY QUESTIONS - 80 MARKS)

WRITE ESSAY ON THE FOLLOWING:

2X15=30

- 1) Classify adrenergic drugs. Explain the mechanism of action, uses and adverse effects of adrenaline. Discuss the management of anaphylactic shock (4+2+4+2+3)
- 2) Classify drugs used in management of angina. Write the mechanism of action and adverse effects of nitrates. What is nitrate tolerance and how it can be overcome? Discuss the management of myocardial infarction (3+3+2+3+4)

WRITE SHORT NOTES ON THE FOLLOWING:

10X5=50

- 3) Enumerate the factors affecting absorption of drugs
- 4) List the different types of drug antagonism with suitable examples
- 5) What are the advantages of benzodiazepines over barbiturates
- 6) A patient is admitted with history of restlessness, violent behaviour and incoherent speech. He was earlier diagnosed with bipolar disorder and is on medications. What is the management of bipolar disorder? What pharmacotherapy needs to be administered for the present acute episode ?
- 7) List the uses and adverse effects of loop diuretics
- 8) A 20 year old woman complains of 1-2 episodes of one sided headache every month affecting her routine work. Describe the management of migraine for this woman
- 9) Give the rationale for combining levodopa with carbidopa. What advice needs to be given to the patient when prescribing this combination
- 10) What are the ways to prevent adverse reactions to drugs
- 11) Mention three therapeutic uses of prostaglandins with examples
- 12) Write the mechanism of action, uses and adverse effects of sodium valproate

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Dr YSR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8

M.B.B.S. DEGREE EXAMINATION – JANUARY, 2024

SECOND M.B.B.S. EXAMINATION

PATHOLOGY- PAPER-II

(Theory Questions)

Time : 2 Hour 40 Minutes

Max. Marks: 80

Note : Answer all questions

Draw a neat diagram wherever necessary

SECTION-II (THEORY QUESTIONS - 80 MARKS)

WRITE ESSAY ON THE FOLLOWING:

2X15=30

- 1) A 55 years male was brought to the emergency room unconscious with history of chest pain. On examination he was dyspneic, pulse and blood pressure was low. ECG showed ST segment elevation
 - a. What is the provisional diagnosis and why?
 - b. Discuss the sequential events in this condition
 - c. Describe microscopic picture of the myocardium in the above condition
 - d. List the immediate and its late complications
- 2) A 15 year old male child was admitted with painful, progressively enlarging mass, around the left knee joint. X-ray of the knee joint shows mixed lytic mass with Codman triangular and sunburst appearance of the proximal tibial mass which is extending into the soft tissue. Laboratory finding as follows: serum alkaline phosphatase levels are increased
 - a. What is the provisional diagnosis and why ?
 - b. Describe the pathogenesis of this condition
 - c. Write the gross and histological subtypes in this condition
 - d. Labelled microscopic diagram of the lesion

WRITE SHORT NOTES ON THE FOLLOWING:

10X5=50

- 3) Teratoma ovary
- 4) Hashimoto's thyroiditis
- 5) Write about the pathogenesis and complications of type II diabetes mellitus
- 6) Pleomorphic Adenoma
- 7) Pathophysiology of fatty liver. Add a note on special stain to demonstrate fat
- 8) Enumerate the differences between nephrotic and nephritic syndrome
- 9) Bronchiectasis
- 10) Classifications of cardiomyopathy. Discuss any one type in detail
- 11) Astrocytoma
- 12) Enumerate the difference between ulcerative colitis and Crohn's disease

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M.B.B.S. DEGREE EXAMINATION – JANUARY, 2024

SECOND M.B.B.S. EXAMINATION

PATHOLOGY - PAPER-I

(Theory Questions)

Time : 2 Hour 40 Minutes

Max. Marks: 80

Note: Answer all questions

Draw a neat diagram wherever necessary

SECTION-II (THEORY QUESTIONS - 80 MARKS)

WRITE ESSAY ON THE FOLLOWING:

2X15=30

- 1) A 25 year old male was brought to the emergency room, 10 minutes post vaccination. On examination he was dyspneic. Pulse and blood pressure was low
 - a. What is the provisional diagnosis and why?
 - b. Discuss the sequential events in this condition
- 2) A 5 year old child was admitted with splenomegaly and lymphadenopathy. Laboratory finding as follows: Hb 6.8 gm/dL, WBC count $100 \times 10^9/L$, Thrombocytopenia. Bone marrow show increase in blast cells, which is positive for PAS stain. LDH and serum uric acid levels are increased
 - a. What is the provisional diagnosis and why ?
 - b. Describe the blood and bone marrow picture in this condition
 - c. Mention the types as per FAB classification with labelled diagram
 - d. Describe the immunophenotypes of this disease

WRITE SHORT NOTES ON THE FOLLOWING:

10X5=50

- 3) Define Necrosis and discuss its types with examples
- 4) Pathogenesis of septic shock
- 5) Hypersensitivity reaction type II
- 6) Physical examination of urine
- 7) Chemical carcinogenesis
- 8) Enumerate the differences between hyperplasia, hypertrophy
- 9) Classification of leprosy
- 10) Role of arachidonic acid metabolites in inflammation
- 11) Blood transfusion reaction
- 12) Enumerate the differences between benign, malignant neoplasm

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M.B.B.S. DEGREE EXAMINATION – DECEMBER, 2022

SECOND M.B.B.S. EXAMINATION

MICROBIOLOGY PAPER-I (Theory Questions)

Time: 2 Hour 40 Minutes

Max. Marks: 80

Note: Answer all questions. Draw a neat diagram wherever necessary

SECTION-II (THEORY QUESTIONS - 80 MARKS)

WRITE ESSAY ON THE FOLLOWING:

2X15=30

- 1) A 12 year old girl was brought to the OPD with history of intermittent fever for the last 4 days, there was history of loss of appetite and general weakness. On examination there was white coated tongue and palpable spleen. Blood culture was sent to the laboratory. Gram negative bacilli was seen on gram smear
 - a. What is the likely causative agent (1)
 - b. What serological test can be done after one week (1)
 - c. Describe the pathogenesis of this organism (3)
 - d. Write in detail about the laboratory diagnosis (4)
 - e. What is Vi antigen how can it be detected (2)
 - f. List the vaccine available and prevention (4)
- 2) List the causes of diarrhea/ dysentery caused by parasites. Describe the life cycle, clinical features pathogenesis and laboratory diagnosis and prevention of infection with Giardia lamblia (3+3+2+2+3+2)

WRITE SHORT NOTES ON THE FOLLOWING:

10X5=50

- 3) Passive immunity
- 4) Herpes zoster
- 5) Mechanism of drug resistance in bacteria
- 6) Diarrhoeagenic Escherichia coli
- 7) Opportunistic fungal infections in HIV
- 8) A 28 year old farmer from the village came to the OPD complaining of weakness and breathlessness whenever he did hard work. On examination he had pallor. Blood test for hemoglobin estimation was sent and his hemoglobin level was 5g/dl the stool examination showed ova of hookworm
 - a. What is the mode of infection with this parasite and infective stage (1)
 - b. Draw the life cycle of hookworm (2)
 - c. What are the complications of hookworm infection (2)
- 9) Dermatophytes
- 10) Different methods of sterilization
- 11) Moments of hand hygiene
- 12) Anaerobic culture methods

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Dr. YSR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008
M.B.B.S. DEGREE EXAMINATION – DECEMBER, 2022
SECOND M.B.B.S. EXAMINATION

MICROBIOLOGY

PAPER-II

(Theory Questions)

Time : 2 Hour 40 Minutes

Max. Marks: 80

Note: Answer all questions.

Draw a neat diagram wherever necessary.

SECTION-II (THEORY QUESTIONS - 80 MARKS)

WRITE ESSAY ON THE FOLLOWING:

2X15=30

- 1) Classify mycobacteria. Describe clinical features, pathogenesis, lab diagnosis and treatment of pulmonary tuberculosis
- 2) A 10 year old boy was brought to the OPD. After a dog bit his leg the wound was washed and cleaned with disinfectants
 - a. What could be the likely infection the patient would get if left unvaccinated (1)
 - b. Describe the morphology of the virus with a suitable diagram (2)
 - c. Write in brief on the pathogenesis (3)
 - d. Describe the clinical presentations (2)
 - e. Write about the laboratory diagnosis for this virus (4)
 - f. Enumerate the prevention and prophylaxis (3)

WRITE SHORT NOTES ON THE FOLLOWING:

10X5=50

- 3) Complications of post streptococcal infection
- 4) Satellitism
- 5) Influenza virus
- 6) Pneumocystis pneumonia
- 7) Laboratory diagnosis of meningitis
- 8) A 10 year old boy was brought to the emergency with muscle stiffness muscle rigidity and lock jaw. Two weeks back he had an injury with a sharp rod while playing. The wound had a serous discharge and now the patient was brought with the above symptoms
 - a. What is the likely diagnosis (1)
 - b. What are the two toxins produced by this organism (1)
 - c. Write briefly the laboratory diagnosis (2)
 - d. What is the prophylaxis which can prevent this infection (1)
- 9) Cryptococcal meningitis
- 10) Lymphogranuloma venereum
- 11) Yersinia pestis
- 12) Bacillus anthracis

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M.B.B.S. DEGREE EXAMINATION – DECEMBER, 2022

SECOND M.B.B.S. EXAMINATION

PHARMACOLOGY -PAPER-I

(Multiple Choice Questions)

Max. Marks : 80

Time : 2 Hours 40 Minutes

Note : Answer all questions

Draw a neat diagram wherever necessary

SECTION-II (THEORY QUESTIONS - 80 MARKS)

WRITE ESSAY ON THE FOLLOWING:

2X15=30

- 1) Classify beta blockers. Discuss the pharmacological actions, therapeutic uses and adverse effects of propranolol (5+4+3+3)
- 2) Classify antidepressants with examples. Explain the mechanism of action, uses and adverse effects of Selective Reuptake Inhibitors (SSRIs). Mention drugs used in bipolar disorders (5+3+2+3+2)

WRITE SHORT NOTES ON THE FOLLOWING:

10X5=50

- 3) What is plasma protein binding. Explain its clinical significance
- 4) Explain the uses and adverse effects of morphine
- 5) Describe the mechanism of action and uses of amiodarone
- 6) Describe the mechanism of action, uses and adverse effects of Loop diuretics
- 7) Write a note on pharmacovigilance
- 8) Mention the drugs used in treatment of migraine with its rationale
- 9) Describe mechanism of action of Lorazepam and uses. Add a note on management of Lorazepam overdose
- 10) A 50 year old female presented to medicine OPD with shortness of breath, feeling tired (fatigue) easily and having swelling in the ankles, legs and abdomen. She's a known case of diabetes, hypertension and high cholesterol levels. She was diagnosed with congestive cardiac failure. Name the different classes of drugs which will help in the given case scenario. Explain the mechanism of action of Digoxin
- 11) Drugs used in pre anesthetic medication with their rationale
- 12) A farmer was brought to the emergency room at a tertiary hospital, with complaints of altered sensorium, increased sweating and oral secretions. On examination, blood pressure was 110/60 mm Hg, pulse rate was 56 beats per minute and his pupils were pinpoint. What is the diagnosis and discuss the management in the above case

Q.P.CODE:M102B011

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M.B.B.S. DEGREE EXAMINATION – DECEMBER, 2022

SECOND M.B.B.S. EXAMINATION

PHARMACOLOGY PAPER-II

(Theory Questions)

Max. Marks : 80

Time : 2 Hour 40 Minutes

Answer all questions. Draw a neat diagram wherever necessary

SECTION-II (THEORY QUESTIONS - 80 MARKS)

2X15=30

WRITE ESSAY ON THE FOLLOWING:

- 1) Classify antimalarial drugs. Explain the uses and adverse effects of chloroquine. Mention the Artemisinin-based Combination Therapy (ACT) regimen for uncomplicated falciparum malaria (5+3+2+5)
- 2) Classify drugs used in the treatment of bronchial asthma. Discuss the mechanism of action, uses and adverse effects of selective, β_2 adrenergic agonist. Explain briefly on cough suppressants (5+3+2+2+3)

10X5=50

WRITE SHORT NOTES ON THE FOLLOWING:

- 3) Mention the drugs used in scabies and explain the route of its application
- 4) Describe the mechanism of action, uses and adverse effects of Sulfonylureas
- 5) Explain the mechanism of action, uses and adverse effects of propylthiouracil
- 6) Describe the mechanism of action and uses of domperidone
- 7) 3rd generation cephalosporins
- 8) Explain the post exposure prophylaxis in HIV
- 9) Enumerate drugs used in Leprosy. Describe the mechanism of action and adverse effects of dapsone
- 10) Describe the uses of methotrexate and its adverse effects
- 11) A 28 years old pregnant woman with 30 weeks gestation came with complaint of swelling of right lower limb. On examination diagnosed as Deep Venous Thrombosis. Enumerate the drugs used in this condition. Explain advantages of Low Molecular Weight Heparins
- 12) A 57 years old woman who is on aspirin for her knee pain since few weeks, came with complains of severe epigastric pain mostly at night and between meals, burning pain the chest and sometimes nausea. Her pain worsened after taking aspirin and drinking coffee, and was relieved after taking antacids. She was diagnosed with gastritis. Mention at least 4 different classes of drugs with 2 examples, which can be used to relieve her gastritis. Discuss the management of H. pylori infection (2+3)

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M.B.B.S. DEGREE EXAMINATION – DECEMBER, 2022

SECOND M.B.B.S. EXAMINATION

PATHOLOGY - PAPER-I

(Theory Questions)

Time : 2 Hour 40 Minutes

Max. Marks: 80

Note: Answer all questions

Draw a neat diagram wherever necessary

SECTION-II (THEORY QUESTIONS - 80 MARKS)

WRITE ESSAY ON THE FOLLOWING:

2X15=30

- 1) Define inflammation. Describe the major events of Acute inflammation. Discuss in detail the mechanism of Chemotaxis and Phagocytosis
- 2) A 40 year old male was admitted with easy fatigability, anorexia, weakness, weight loss, night sweats and dragging sensation in the abdomen due to splenomegaly. His total WBC count was 2,50,000 cells / mm³
 - a. What is the provisional diagnosis and why
 - b. Describe the chromosomal abnormality of the disease
 - c. Describe the blood and bone marrow picture
 - d. Mention various phases of the disease

WRITE SHORT NOTES ON THE FOLLOWING:

10X5=50

- 3) Discuss the modes and mechanism of metastasis
- 4) Apoptosis
- 5) Blood picture and bone marrow findings in Megaloblastic Anemia
- 6) CSF findings in Tuberculous meningitis and viral meningitis
- 7) Paraneoplastic syndromes
- 8) Gaucher's disease
- 9) Tertiary Syphilis
- 10) Proteins in urine
- 11) Metaplasia
- 12) Define infarct and enumerate the factors that determine the outcome of an infarct

Q.P. CODE:M102B021

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M.B.B.S. DEGREE EXAMINATION – DECEMBER, 2022

SECOND M.B.B.S. EXAMINATION

PATHOLOGY- PAPER-II

(Theory Questions)

Time : 2 Hour 40 Minutes

Max. Marks: 80

Note : Answer all questions

Draw a neat diagram wherever necessary

SECTION-II (THEORY QUESTIONS - 80 MARKS)

WRITE ESSAY ON THE FOLLOWING:

2X15=30

- 1) A 55 year female was brought to the outpatient department with history of foul smelling discharge per vagina. On per speculum examination a friable red growth, which bleeds on touch noted
 - a. What is the provisional diagnosis and why?
 - b. Discuss the etiopathogenesis of this condition
 - c. Describe microscopic picture of the above condition
 - d. Add a note on screening tests
- 2) A 65 year old male was admitted with breathing difficulty. History of sudden onset of high fever, chills and cough with mucopurulent sputum. X-ray of the chest shows radiopaque lesion in the left lung lower lobe. Laboratory findings as follows: positive gram stain on sputum noted
 - a. What is the provisional diagnosis and why?
 - b. Write the gross pathology and stages in this condition
 - c. Describe the difference between the two morphological types
 - d. Labelled microscopic diagram of this disease

WRITE SHORT NOTES ON THE FOLLOWING:

10X5=50

- 3) Seminoma
- 4) Papillary carcinoma thyroid
- 5) Classify diabetes mellitus and add a note on late complications of diabetes mellitus
- 6) Warthin's tumor
- 7) Pathology and morphology of cirrhosis of liver
- 8) Post streptococcal glomerulonephritis
- 9) Osteomyelitis
- 10) Classification of breast carcinoma. Discuss any one type in detail
- 11) Meningioma
- 12) What is Inflammatory Bowel Disease. Discuss any one type in detail

Q.P.CODE:506-A-CBME

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

M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2022

SECOND M.B.B.S. EXAMINATION

MICROBIOLOGY

PAPER-I

(Theory Questions)

Time: 2 Hour 40 Minutes

Marks : 80

Note: Answer all questions

Draw a neat diagram wherever necessary

SECTION-II (THEORY QUESTIONS - 80 MARKS)**STRUCTURED ESSAY QUESTIONS:**

2X15=30

- 1) Describe the morphology, pathogenesis and laboratory diagnosis of Echinococcus granulosus
- 2) A 10 year old boy presents to outpatient department with history of fever of 5 days duration. The mother says the boy has been having fever everyday and the fever does not touch the baseline. She also adds that he has been presenting with rashes on the abdomen. On examination the doctor observes that the boy is toxic with the fever of 102 deg and that spleen is palpable on examination with the coating of the tongue
 - a. What is the clinical diagnosis and what is the probable etiology
 - b. Describe the pathogenesis and lab diagnosis
 - c. Mention the prophylaxis and prevention (3+7+5)

SHORT ANSWER QUESTIONS:

10X5=50

- 3) Laboratory diagnosis of kala-azar
- 4) Diarrheogenic E. coli
- 5) Methods of HIV detection in laboratory settings
- 6) Gaseous disinfectants
- 7) Alternative complement pathway
- 8) Larva Migrans
- 9) An eight year old child presents with the history of fever followed by distension of abdomen as observed by her mother. USG report showed massive splenomegaly and bone marrow biopsy was done. The result came as leukemia. How do you inform the reports to their parents from doctor point of view
- 10) 24 old college girl had a bakery items from the bakery. After consuming food she had vomiting with in 6 hours of consumption associated with abdominal pain. What could have been the probable etiology. Elaborate its pathogenesis and lab diagnosis
- 11) Mycetoma
- 12) Describe the pathogenesis and lab diagnosis of bacillary dysentery

Q.P.CODE:506-B-CBME

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M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2022

SECOND M.B.B.S. EXAMINATION

MICROBIOLOGY

PAPER-II

(Theory Questions)

Time : 2 Hour 40 Minutes

Max. Marks: 80

Note: Answer all questions.

Draw a neat diagram wherever necessary.

SECTION-II (THEORY QUESTIONS - 80 MARKS)**STRUCTURED ESSAY QUESTIONS:**

2X15=30

- 1) Rajesh, a 28 year old male, was admitted to the hospital with complaints of low grade fever, loss of weight and appetite and chronic cough with expectoration for past 6 months. Sputum examination revealed long, slender and beaded acid fast bacilli
 - a. What is your provisional diagnosis
 - b. Describe the pathogenesis of the condition
 - c. Describe the lab diagnosis in detail and briefly mention about drug resistance (3+6+6)
- 2) Describe the pathogenesis, lab diagnosis and prophylaxis of poliomyelitis

SHORT ANSWER QUESTIONS:

10X5=50

- 3) Primary amoebic encephalitis
- 4) Lab diagnosis of urinary tract infections
- 5) Cutaneous anthrax
- 6) Lab diagnosis of syphilis
- 7) Atypical pneumonia
- 8) Diagnosis and prophylaxis of HINI infection
- 9) Oncogenic viruses
- 10) Viral hemorrhagic fevers
- 11) 25 year old man comes to blood bank for blood donation. On collecting the sample for testing he was found to be hepatitis B positive. How will you disclose the result to the patient
- 12) 19 year old lady comes to gynecology department with history of thin green colour foul smelling discharge from the vagina associated with intense pruritis
 - a. What is the causative organisms
 - b. Discuss the pathogenesis and lab diagnosis

Q.P.CODE:505-A-CBME

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

M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2022

SECOND M.B.B.S. EXAMINATION

PHARMACOLOGY -PAPER-I

(Multiple Choice Questions)

Time : 2 Hours 40 Minutes

Max. Marks : 80

Note : Answer all questions

Draw a neat diagram wherever necessary

SECTION-II (THEORY QUESTIONS - 80 MARKS)

STRUCTURED ESSAY QUESTIONS:

2X15=30

- 1) Classify beta-blockers. Write a note on cardiovascular and non-cardiovascular indications of beta-blockers. List the significant adverse effects and drug interactions of beta-blockers. Discuss the management of hypertensive emergency (3+4+4+4)
- 2) Discuss the pathophysiology of Parkinson's disease and different group of drugs used for its treatment. Discuss the rationale for levodopa carbidopa combination. Write briefly about different strategies to prevent wearing off phenomenon during its treatment. Add a note on drug induced parkinsonism and its treatment (6+2+3+4)

SHORT ANSWER QUESTIONS:

10X5=50

- 3) Discuss the clinical significance of plasma protein binding
- 4) Write about the parenteral routes of drug administration
- 5) Discuss briefly about the Pharmacovigilance program of India
- 6) A farmer presented to the emergency department with signs and symptoms suggestive of organophosphorus poisoning. How will you manage this case. Give justification for the drugs to be used
- 7) Describe the uses and adverse effects of Thiazide diuretics
- 8) Add a note on different dose of aspirin and its therapeutic uses
- 9) Discuss the role of steroids in asthma
- 10) Write the role of statins as cholesterol lowering agent
- 11) Enumerate the obstetrics and gynecological uses of prostaglandin analogues
- 12) After injecting succinylcholine I.V. to have muscle relaxation during a surgical procedure, a patient developed prolonged apnea. What could be the probable cause. What is the management for the above condition

Q.P.CODE:505-B-CBME

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8
M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2022
SECOND M.B.B.S. EXAMINATION

PHARMACOLOGY

PAPER-II

(Theory Questions)

Time : 2 Hour 40 Minutes

Max. Marks : 80

Answer all questions

Draw a neat diagram wherever necessary

SECTION-II (THEORY QUESTIONS - 80 MARKS)

STRUCTURED ESSAY QUESTIONS:

2X15=30

- 1) List the different groups of oral anti-diabetic agents with examples. Explain in detail the mechanism of action and adverse effects of any one group. Enumerate the insulin preparations and outline the adverse effects of insulin with its management. Add a note on diabetic ketoacidosis (3+4+5+3)
- 2) Enumerate the drugs used in the treatment of pulmonary tuberculosis. Explain the mechanism of action and adverse effects of one of the first line antitubercular drug. Discuss the treatment of multi drug resistant tuberculosis (4+4+7)

SHORT ANSWER QUESTIONS:

10X5=50

- 3) Write the composition of oral rehydration salt solution and its role in diarrhea
- 4) Compare and contrast heparin and warfarin
- 5) Describe the therapeutic uses of corticosteroids
- 6) Write about the management of psoriasis
- 7) Enumerate the iron preparations and add a note on the indications of parenteral iron therapy
- 8) A 36 year old female patient had history of acid peptic disease and endoscopic biopsy was suggestive of helicobacter pylori infection. Describe the pharmacological management of this case
- 9) A 25 year old male developed an infection due to Methicillin Resistant Staphylococcus Aureus (MRSA). Describe in brief the drugs available to treat such infection
- 10) Discuss the treatment of uncomplicated malaria
- 11) Write about the toxicity amelioration of anticancer agents
- 12) Explain the management of paracetamol poisoning

Q.P. CODE:507-A-CBME

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8
M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2022
SECOND M.B.B.S. EXAMINATION
PATHOLOGY - PAPER-I
(Theory Questions)

Time : 2 Hour 40 Minutes

Max. Marks: 80

Note: Answer all questions

Draw a neat diagram wherever necessary

SECTION-II (THEORY QUESTIONS - 80 MARKS)

STRUCTURED ESSAY QUESTIONS:

2X15=30

- 1) a. Define apoptosis
b. Enumerate in detail about the pathways of apoptosis
c. What are the other methods of cell death (2+7+6)
- 2) a. Define hypersensitivity
b. Explain in detail with examples of each type of hypersensitivity
c. Explain in detail on type I hypersensitivity (2+8+5)

SHORT ANSWER QUESTIONS:

10X5=50

- 3) Define necrosis. Explain in detail on various types of necrosis
- 4) Explain briefly on intracellular accumulations and pigments
- 5) Explain briefly on disseminated intravascular coagulation
- 6) Write a note on angiogenesis
- 7) Write a note on radiation induced carcinogenesis
- 8) Write in detail about lead poisoning
- 9) Elucidate lysosomal storage disorders
- 10) Write a brief note on Down's syndrome
- 11) Write in detail the pathogenesis of AIDS
- 12) Enumerate and explain the stages of Lupus Nephritis

Q.P. CODE:507-B-CBME

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8

M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2022

SECOND M.B.B.S. EXAMINATION

PATHOLOGY- PAPER-II

(Theory Questions)

Time : 2 Hour 40 Minutes

Max. Marks: 80

Note : Answer all questions

Draw a neat diagram wherever necessary

SECTION-II (THEORY QUESTIONS - 80 MARKS)

2X15=30

STRUCTURED ESSAY QUESTIONS:

- 1) A eight year old boy was brought to clinic by his mother with complaints of shifting joint pain and swelling involving knee joint, elbow joint etc. and fever since three days on enquiry it was found that the child had an attack of sore throat based on this information
 - a. What is your probable diagnosis
 - b. Enlist the organs which may get affected
 - c. What is the pathogenesis of this disease
 - d. Enlist the causes of death in this condition (2+4+5+4)
- 2) A 72 years old male presented with changes in the bowel habit, bleeding per rectum, loss of weight fatigue and weakness of six months duration. After endoscopic biopsy on colon, a left sided hemicolectomy was done. Answer the following:
 - a. What is the probable diagnosis
 - b. Describe the etiopathogenesis
 - c. Describe the gross and microscopic features of the resected colon
 - d. Mention the serological the marker which is increased (2+4+6+3)

SHORT ANSWER QUESTIONS:

10X5=50

- 3) Write a brief note on coal workers pneumoconiosis
- 4) Write a short note on mesothelioma
- 5) Histopathology of cirrhosis of liver
- 6) Skeletal manifestation of hyperparathyroidism
- 7) Prognostic factors in carcinoma breast
- 8) Write a note on Crescentic Glomerulonephritis and its light microscopy findings
- 9) Write a note on screening for cervical cancer
- 10) Write a brief note on Cushing's syndrome
- 11) Elaborate about primary biliary cholangitis
- 12) Write a note on etiology, pathogenesis and clinical features of osteomyelitis

Q.P.CODE:506-A

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

M.B.B.S. DEGREE EXAMINATION – AUGUST, 2021

SECOND M.B.B.S. EXAMINATION

MICROBIOLOGY

(BACTERIOLOGY & IMMUNOLOGY)

PAPER-I

Time : 2 Hours

Max. Marks: 40

Note: Answer all questions

Draw neat diagrams wherever necessary

- 1) Describe the laboratory diagnosis and clinical manifestations of Syphilis 5+5=10

WRITE SHORT NOTES ON:

5X4=20

- 2) Laboratory diagnosis of cholera
- 3) Transport Media
- 4) Pathogenesis and types of Botulism
- 5) Yersinia Pestis
- 6) Type III hypersensitivity

WRITE BRIEFLY ON:

5X2=10

- 7) Autoclave
- 8) Categories of biomedical waste
- 9) Drug resistance in staphylococcus aureus
- 10) Bacterial transduction
- 11) Enumerate reemerging infections

Q.P.CODE:506-B

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

M.B.B.S. DEGREE EXAMINATION – AUGUST, 2021

SECOND M.B.B.S. EXAMINATION

MICROBIOLOGY

(VIROLOGY, MYCOLOGY & PARASITOLOGY)

PAPER-II

Time : 2 Hours

Max. Marks: 40

Note: Answer all questions.

Draw neat diagrams wherever necessary

- 1) Classify Retroviruses. Describe structure of HIV. Write 2+4+4=10
WHO clinical staging of HIV for adults

WRITE SHORT NOTES ON:

5X4=20

- 2) Cryptococcosis
- 3) Rotavirus
- 4) Life cycle of Toxoplasma gondii
- 5) Dermatophytosis
- 6) Hospital acquired infections

WRITE BRIEFLY ON:

5X2=10

- 7) Classify blood flukes
- 8) Complications of Measles
- 9) Giardia Lamblia
- 10) Name four arboviruses
- 11) Antigenic drift and shift

Q.P.CODE:505-A

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

M.B.B.S. DEGREE EXAMINATION – AUGUST, 2021

SECOND M.B.B.S. EXAMINATION

PHARMACOLOGY

PAPER-I

Time : 2 Hours

Max. Marks : 40

Note : Answer all questions

Draw neat diagrams wherever necessary

- 1) Enlist the anti epileptic drugs. Write about mechanism of action, adverse effects and uses of phenytoin 3+3+1+3=10

WRITE SHORT NOTES ON:

5X4=20

- 2) Dissociate^{ive} anesthesia
3) Uses of Benzodiazepines
4) Bupivacaine
5) Mechanism of action of Fluoxetine
6) Drug therapy of ~~organon-phosphate compound~~ poisoning *Organophosphorus poisoning*

(changed by Dr NTR UHS)

WRITE BRIEFLY ON:

5X2=10

- 7) Gout
8) Acute attack of myocardial infarction
9) Anemia (Iron deficiency)
10) Prophylaxis of Migraine
11) Hepatic CYP microsomal enzyme system

*M. K. Kanthi
16/8/2021*

Q.P.CODE:505-B

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8
M.B.B.S. DEGREE EXAMINATION – AUGUST, 2021
SECOND M.B.B.S. EXAMINATION

PHARMACOLOGY

PAPER-II

Time : 2 Hours

Max. Marks : 40

Answer all questions

Draw neat diagrams wherever necessary

- 1) Classify oral hypoglycemic drugs. Discuss about mechanism of action, adverse effects and uses of metformin 2+4+4=10

WRITE SHORT NOTES ON:

5x4=20

- 2) Management of Hepatic Amoebiasis
- 3) Management of Diarrheas
- 4) Multi Drug Resistant (MDR) TB
- 5) Post Exposure Prophylaxis (PEP)
- 6) Management of Peptic Ulcer

WRITE BRIEFLY ON:

5X2=10

- 7) Antiseptics and disinfectants
 - 8) Drugs and Pregnancy
 - 9) Management of cough
 - 10) Albendazole
 - 11) Clavulanic acid
-

Q.P. CODE:507-A

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8

M.B.B.S. DEGREE EXAMINATION - AUGUST, 2021

SECOND M.B.B.S. EXAMINATION

PATHOLOGY - PAPER-I

(GENERAL PATHOLOGY & HAEMATOLOGY)

Time : 2 Hours

Max. Marks: 40

Note: Answer all questions

Draw neat diagram wherever necessary

- 1) A 25 year lady developed butterfly rash over the face. There was 1+4+3+2=10 associated fever, pain in the peripheral joints and photosensitivity. On examination malar rash and oral ulcers were observed:
- Which is your diagnosis
 - Describe in detail the aetiology and pathogenesis of this condition
 - Discuss the morphological classification of kidney in this disorder
 - list any two laboratory investigations to be done in this disease

WRITE SHORT NOTES ON:

5X4=20

- 2) Phagocytosis
- 3) WHO classification of Acute Myeloid Leukemia
- 4) Pathogenesis of septic shock
- 5) Down syndrome
- 6) Pathways of spread of malignant tumors

WRITE BRIEFLY ON:

5X2=10

- 7) Enumerate four cell derived chemical mediators of inflammation
- 8) List four opportunistic infections in AIDS patient
- 9) List four conditions due to DNA repair gene defects
- 10) List any four fate of thrombus
- 11) Write any four laboratory investigations for Megaloblastic anaemia

Q.P. CODE:507-B

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8

M.B.B.S. DEGREE EXAMINATION – AUGUST, 2021

SECOND M.B.B.S. EXAMINATION

PATHOLOGY- PAPER-II

(SYSTEMIC PATHOLOGY)

Time : 2 Hours

Max. Marks: 40

Note : Answer all questions

Draw neat diagrams wherever necessary

- 1) A 50 year old lady came to surgical outpatient department with a lump 1+4+3+2=10
in her left breast which she had noticed 2 weeks back. On
examination a hard swelling of 4x3 was palpable in the upper outer
quadrant of left breast, which was fixed to chest wall. 3 axillary lymph
nodes were palpable. Mastectomy of left breast based on Fine Needle
Aspiration report
- A. Which is your diagnosis
 - B. Describe in detail the etiopathogenesis of this condition
 - C. Discuss the gross and microscopy of the most common
histological type of this lesion
 - D. Enumerate any four prognostic factors related to this condition

WRITE SHORT NOTES ON:

5X4=20

- 2) Describe the etiopathogenesis and morphology of Malignant melanoma
- 3) CSF findings in pyogenic meningitis
- 4) Discuss in detail about Multiple Endocrine Neoplasia (MEN) Syndrome
- 5) Classify lung cancers and discuss the associated paraneoplastic
syndromes
- 6) Barrett Oesophagus

WRITE BRIEFLY ON:

5X2=10

- 7) What is the pathogenesis of dissecting aneurysm
- 8) Define psammoma body and write two conditions where it occurs
- 9) Tabulate any four differences between Crohn's disease and Ulcerative
colitis
- 10) Two congenital syndromes associated with Wilms tumor
- 11) Morphology of myocardial infarction

Q.P.CODE:508-A

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

M.B.B.S. DEGREE EXAMINATION – AUGUST, 2021

SECOND M.B.B.S. EXAMINATION

FORENSIC MEDICINE

Time : 2 Hours

Max. Marks: 40

Note : Answer all questions

Draw neat diagrams wherever necessary

- 1) Define infanticide. What are the postmortem signs of a live born child. Add a note on Munchausen's syndrome by proxy

2+5+3=10
5X4=20

WRITE SHORT NOTES ON:

- 2) Summons
- 3) Informed consent
- 4) Entry and exit wound of rifle bullet
- 5) Clinical features and treatment of Botulism
- 6) Section 320 of Indian Penal Code

WRITE BRIEFLY ON:

5X2=10

- 7) Burking
- 8) Ideal Homicidal Poison
- 9) Cephalic index
- 10) Voyeurism
- 11) Abrasion collar

Q.P.CODE:506-A

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

M.B.B.S. DEGREE EXAMINATION – MARCH, 2021

SECOND M.B.B.S. EXAMINATION

MICROBIOLOGY

(BACTERIOLOGY & IMMUNOLOGY)

PAPER-I

Time : 2 Hours

Max. Marks: 40

Note: Answer all questions

Draw neat diagrams wherever necessary

-
- 1) Agents causing traveller's diarrhoea. Describe the pathogenesis & Laboratory diagnosis of infections caused by *Escherichia coli*. 3+3+4=10

WRITE SHORT NOTES ON:

5X4=20

- 2) Gaseous sterilization
- 3) Anaerobic culture methods
- 4) Laboratory diagnosis of Rickettsial infection
- 5) Non sporing anaerobes
- 6) Graft versus host reaction

WRITE BRIEFLY ON:

5X2=10

- 7) Staphylococcal toxic shock syndrome
- 8) DPT vaccine
- 9) Halophilic Vibrios
- 10) Bacterial conjugation
- 11) Enumerate Systemic Autoimmune diseases

Q.P.CODE:506-B

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

M.B.B.S. DEGREE EXAMINATION – MARCH, 2021

SECOND M.B.B.S. EXAMINATION

MICROBIOLOGY

(VIROLOGY, MYCOLOGY & PARASITOLOGY)

PAPER-II

Time : 2 Hours

Max. Marks: 40

Note: Answer all questions.

Draw neat diagrams wherever necessary

- 1) Describe morphology of Influenza virus. Write in detail 3+3+4=10
about clinical manifestation and laboratory diagnosis of
influenza virus

WRITE SHORT NOTES ON:

5X4=20

- 2) Zygomycosis
- 3) Oncogenic Viruses
- 4) Laboratory diagnosis of Trichomonas vaginalis infection
- 5) Sporotrichosis
- 6) Blood stream infections

WRITE BRIEFLY ON:

5X2=10

- 7) Classify Filarial nematodes
- 8) Name four hepatotropic viruses
- 9) Neurocysticercosis
- 10) Clinical Manifestation of Human Papilloma virus
- 11) Viral Cytopathic effects

Q.P.CODE:505-A

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

M.B.B.S. DEGREE EXAMINATION – MARCH, 2021

SECOND M.B.B.S. EXAMINATION

PHARMACOLOGY

PAPER-I

Time : 2 Hours

Max. Marks : 40

Note : Answer all questions

Draw neat diagrams wherever necessary

- 1) Classify Anti Hypertensive drugs. Write the pharmacological actions, uses and adverse effects of captopril. $3+2+3+2=10$

WRITE SHORT NOTES ON:

5X4=20

- 2) First pass metabolism
- 3) Prazosin
- 4) MMG-COA reductase inhibitors
- 5) Selective Serotonergic Reuptake Inhibitors (SSRI)
- 6) Osmotic diuretic

WRITE BRIEFLY ON:

5X2=10

- 7) Phase III clinical trial
- 8) Name fast acting intravenous anesthetics
- 9) Write two vasopressin analogues and its uses
- 10) What is the mechanism of action of neostigmine in myasthenia gravis
- 11) What is the advantage of combining local anesthetics with adrenaline

Q.P.CODE:505-B

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8

M.B.B.S. DEGREE EXAMINATION – MARCH, 2021

SECOND M.B.B.S. EXAMINATION

PHARMACOLOGY

PAPER-II

Time : 2 Hours

Max. Marks : 40

Answer all questions

Draw neat diagrams wherever necessary

- 1) Enumerate fluroquinolone antibiotics, write the mechanism of action, uses and adverse effects of ciprofloxacin $3+1+3+3=10$

WRITE SHORT NOTES ON:

5x4=20

- 2) Dapsone
- 3) Tocolytics
- 4) Prokinetic drugs
- 5) Bronchodilators
- 6) Alkylating agents used in cancer therapy

WRITE BRIEFLY ON:

5X2=10

- 7) Name any four 3rd generation cephalosporins and its uses
- 8) Write two uses and side effects of metronidazole
- 9) Name artemisinin derivatives and its uses
- 10) Mention any four drugs used for treatment of acne vulgaris
- 11) Organ transplantation

Q.P. CODE:507-A

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8
M.B.B.S. DEGREE EXAMINATION - MARCH, 2021
SECOND M.B.B.S. EXAMINATION

PATHOLOGY - PAPER-I
(GENERAL PATHOLOGY & HAEMATOLOGY)

Time : 2 Hours

Max. Marks: 40

Note: Answer all questions

Draw neat diagram wherever necessary

- 1) A 55 year old lady was brought to the emergency room 1+4+2+3=10
unconscious with history of road accident. She sustained
multiple injuries, fractures of femur and tibia. These fractures
are stabilized at surgery soon after admission. However 2 days
after admission, she suddenly becomes dyspneic and developed
tachypnea and tachycardia, irritability, restlessness and it
progressed to delirium, coma and death on 7th day.
a) What is the provisional diagnosis
b) Discuss the pathogenesis of the lesion
c) Describe microscopic picture of the Lungs in the above
condition
d) How frozen sections of the lung tissue help in final diagnosis
at autopsy and mention various stains specific for it

WRITE SHORT NOTES ON:

5X4=20

- 2) Metaplasia
- 3) Immune thrombocytopenia
- 4) Klinefelter syndrome
- 5) Blood picture in Megaloblastic Anemia
- 6) CSF in Tuberculous meningitis

WRITE BRIEFLY ON:

5X2=10

- 7) P53 Oncogene
- 8) Lipoxins
- 9) Factors affecting wound healing
- 10) Stains used to demonstrate Amyloid
- 11) Russell bodies

Q.P. CODE:507-B

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8
M.B.B.S. DEGREE EXAMINATION - MARCH, 2021
SECOND M.B.B.S. EXAMINATION

PATHOLOGY- PAPER-II
(SYSTEMIC PATHOLOGY)

Max. Marks: 40

Time : 2 Hours

Note : Answer all questions

Draw neat diagrams wherever necessary

- 1) 70 year male presented with dyspnea and sweating of sudden onset. He is a known hypertensive and diabetic for 15 years. On examination he has weak pulse 1+4+3+2=10
- What is the diagnosis
 - Write about pathogenesis of the above disorder
 - Write in detail about the morphological changes that occur
 - Write its complications

5X4=20

WRITE SHORT NOTES ON:

- Pathogenesis and morphology of asbestosis
- Pathology, morphology of cirrhosis of liver
- Medullary carcinoma breast
- Write about the pathogenesis and complications of diabetes mellitus
- Pleomorphic Adenoma

5X2=10

WRITE BRIEFLY ON:

- Lichen planus
- Microscopic picture of mature Teratoma
- Mention four microscopic features of chronic pyelonephritis
- Define and write about sites involved in endometriosis
- Mention four histological sub-types of Osteosarcoma

Q.P.CODE:508-A

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

M.B.B.S. DEGREE EXAMINATION – MARCH, 2021

SECOND M.B.B.S. EXAMINATION

FORENSIC MEDICINE

Time : 2 Hours

Max. Marks: 40*

Note : Answer all questions

Draw neat diagrams wherever necessary

- 1) Define drowning. Describe the post mortem appearance in a case of fresh water drowning. Add a note on diatoms 10

WRITE SHORT NOTES ON:

5X4=20

- 2) Gustafson's technique
- 3) Pedestrian injuries in road traffic accident
- 4) Artificial insemination
- 5) Sudden Infant Death Syndrome (SIDS)
- 6) Define delusion. What are the various types of delusions

WRITE BRIEFLY ON:

5X2=10

- 7) Vitriolage
- 8) Bestiality
- 9) Phossy jaw
- 10) Cocaine bugs
- 11) Café coronary

Q.P.CODE:506-A

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

M.B.B.S. DEGREE EXAMINATION – NOVEMBER, 2020

SECOND M.B.B.S. EXAMINATION

MICROBIOLOGY

(BACTERIOLOGY & IMMUNOLOGY)

PAPER-I

Time : 2 Hours

Max. Marks: 40

Note: Answer all questions

Draw neat diagrams wherever necessary

-
- 1) Describe the Pathogenesis and laboratory diagnosis of Enteric fever. Add a note on Vaccines for Typhoid fever. 3+4+3=10

WRITE SHORT NOTES ON:

5X4=20

- 2) Bacterial filters
- 3) MacConkey agar
- 4) Gas gangrene
- 5) Non tuberculous Mycobacteria
- 6) Properties of IgG

WRITE BRIEFLY ON:

5X2=10

- 7) Manifestations of Syphilis
- 8) Laboratory diagnosis of Streptococcus pyogenes infection
- 9) Pathogenesis of Diphtheria
- 10) Bacterial transformation
- 11) Enumerate laboratory acquired infections

Q.P.CODE:506-B

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008
M.B.B.S. DEGREE EXAMINATION – NOVEMBER, 2020
SECOND M.B.B.S. EXAMINATION

MICROBIOLOGY

(VIROLOGY, MYCOLOGY & PARASITOLOGY)

PAPER-II

Time : 2 Hours

Max. Marks: 40

Note: Answer all questions.

Draw neat diagrams wherever necessary

- 1) Classify Hepatitis Virus. Describe morphology, epidemiology & laboratory diagnosis, prophylaxis of Hepatitis B Virus 3+3+4=10

WRITE SHORT NOTES ON:

5X4=20

- 2) Candidiasis
3) Slow Virus diseases
4) Lab diagnosis of Leishmaniasis
5) Rhinosporidiosis
6) Zoonosis

WRITE BRIEFLY ON:

5X2=10

- 7) Extraintestinal amoebiasis
8) Complications of Falciparum malaria
9) Classify human herpes virus
10) Congenital Rubella Syndrome
11) Name four Vaccines for Viral Infection
-

Q.P.CODE:505-A

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

M.B.B.S. DEGREE EXAMINATION – NOVEMBER, 2020

SECOND M.B.B.S. EXAMINATION

PHARMACOLOGY

PAPER-I

Time : 2 Hours

Max. Marks : 40

Note : Answer all questions

Draw neat diagrams wherever necessary

- 1) Classify sympathomimetic drugs. List the therapeutic uses of adrenaline mentioning the pharma rationale for each indication. 10

WRITE SHORT NOTES ON:

5X4=20

- 2) Explain the action of nitrates in angina pectoris.
3) Explain plasma protein binding of drugs with suitable examples. Give its clinical importance.
4) Therapeutic uses of diazepam
5) Therapeutic uses and adverse effects of furosemide
6) Mechanism of action and uses of heparin.

WRITE BRIEFLY ON:

5X2=10

- 7) Rationale for the uses of digoxin in atrial fibrillation
8) Transdermal administration of drug with two examples
9) State the rationale for use of aspirin in low doses as an antiplatelet drug
10) What is the metabolic fate of atracurium
11) Mention the four adverse effects of phenothiazines.

Q.P.CODE:505-B

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8
M.B.B.S. DEGREE EXAMINATION – NOVEMBER, 2020
SECOND M.B.B.S. EXAMINATION

PHARMACOLOGY

PAPER-II

Time : 2 Hours

Max. Marks : 40

Answer all questions

Draw neat diagrams wherever necessary

- 1) Classify the insulin preparations according to their time activity profile. Describe the mechanism of action, uses and adverse effects of insulin. 10

WRITE SHORT NOTES ON:

5x4=20

- 2) Treatment of cancer chemotherapy induced vomiting
3) Therapeutic uses and adverse effects of aminoglycoside antibiotics
4) Mention the antidote for iron poisoning and its mechanism of action

5) Inhalational glucocorticoids

6) Uterine relaxants (tocolytic agents)

WRITE BRIEFLY ON:

5X2=10

- 7) Name four drugs used in tuberculosis with one important side effect of each
8) Rationale for use of salbutamol in bronchial asthma
9) Ranitidine is preferred to cimetidine in clinical practice. Give the reason
10) What are the benefits of hormone replacement therapy (HRT) in post-menopausal women?
11) Give reason for the uses of citrovorum factor in methotrexate toxicity

Q.P. CODE:507-A

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8
M.B.B.S. DEGREE EXAMINATION - NOVEMBER, 2020
SECOND M.B.B.S. EXAMINATION

PATHOLOGY

(GENERAL PATHOLOGY & HAEMATOLOGY)

PAPER-I

Max. Marks: 40

Time : 2 Hours

Note: Answer all questions

Draw neat diagram wherever necessary

-
- 1) A 35 year old man was admitted with easy fatigability, 1+5+2+2=10
anorexia, weakness, weight loss, night sweats and dragging
sensation in the abdomen due to massive splenomegaly. His
total WBC count was 2,00,000 cells/ mm³.
a) What is the provisional diagnosis?
b) Describe the blood and bone marrow picture.
c) Describe the chromosomal abnormality of the disease
d) Mention various phases of the disease.

WRITE SHORT NOTES ON:

5X4=20

- 2) Complications of myocardial infarction.
- 3) Primary tuberculosis.
- 4) Routes of Tumor metastasis.
- 5) Graft versus host disease.
- 6) Down's syndrome.

WRITE BRIEFLY ON:

5X2=10

- 7) Chemotaxis.
- 8) What are the viral oncogenes with examples?
- 9) Vitamin A deficiency.
- 10) Name four cell derived mediators of inflammation.
- 11) Define pathological calcification and give two examples.

Q.P. CODE: 507-B

DR NTR UNIVERSITY OF HEALTH SCIENCES:: VIJAYAWADA - 8
M.B.B.S. DEGREE EXAMINATION – NOVEMBER, 2020
SECOND M.B.B.S. EXAMINATION

PATHOLOGY
(SYSTEMIC PATHOLOGY)
PAPER-II

Time: 2 Hours

Max. Marks: 40

Note: Answer all questions

Draw neat diagrams wherever necessary

- 1) A 50 year old male presents with cough, dyspnea, and intermittent hemoptysis for two months along with loss of weight and appetite. He is a chronic smoker for the past 3 decades. CT chest revealed mass lesion in the right lobe of lung. 1+5+2+2=10
- a) What is your probable diagnosis?
 - b) Discuss in detail the classification, morphological features of the disease
 - c) Paraneoplastic syndromes associated with it.
 - d) Write four complications of it.

WRITE SHORT NOTES ON:

5X4=20

- 2) Atherosclerosis.
- 3) Pheochromocytoma.
- 4) Aneurysmal bone cyst.
- 5) Liver abscess.
- 6) Crohn's disease.

WRITE BRIEFLY ON:

5X2=10

- 7) Aschoff bodies.
- 8) Four sites of teratoma.
- 9) Name four gestational trophoblastic tumors.
- 10) Microscopic features of Phyllodes tumor.
- 11) Mention four common tumors of CNS.

Q.P.CODE:508-A

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008
M.B.B.S. DEGREE EXAMINATION – NOVEMBER, 2020
SECOND M.B.B.S. EXAMINATION

FORENSIC MEDICINE

Time: 2 Hours

Max. Marks: 40

Note: Answer all questions

Draw neat diagrams wherever necessary

- 1) Define Somatic Death? Mention the various criteria for certifying the Somatic Death? Write a note on Modern Criteria of Somatic Death? 1+4+5=10

WRITE SHORT NOTES ON:

5X4=20

- 2) Res Ipsa Loquitur
3) Gustafson's method
4) Differences between Ante mortem Wounds & Postmortem Wounds
5) Clinical features of Methanol Poisoning
6) Treatment of Snake bite

WRITE BRIEFLY ON:

5X2=10

- 7) Conduct Money
8) Garroting
9) Locard's Exchange Principle
10) Impulse
11) Greek Love

Q.P.CODE:506-A

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

M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2020

SECOND M.B.B.S. EXAMINATION

MICROBIOLOGY

(BACTERIOLOGY & IMMUNOLOGY)

PAPER-I

Time : 2 Hours

Max. Marks: 40

Note: Answer all questions

Draw neat diagrams wherever necessary

-
- 1) Enumerate Bacteria causing Sexually Transmitted Diseases. 2+3+5=10
Describe Pathogenicity and laboratory diagnosis of Syphilis

WRITE SHORT NOTES ON:

5X4=20

- 2) Chemical sterilization
3) ELISA
4) Bacterial flagellum
5) Cell Mediated Immunity
6) Morphology of C. Diphtheriae with diagram

WRITE BRIEFLY ON:

5X2=10

- 7) Robertson's Cooked Meat medium
8) Pasteurization
9) Structure of IgG
10) Name four bacteria causing UTI
11) Four phases of Bacterial growth curve

Q.P.CODE:505-A

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

M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2020

SECOND M.B.B.S. EXAMINATION

PHARMACOLOGY

PAPER-I

Time : 2 Hours

Max. Marks : 40

Note : Answer all questions

Draw neat diagrams wherever necessary

- 1) Classify the drugs used in the treatment of hypertension. Write 3+3+2+2=10
the Pharmacological action, uses and adverse effects of ACE
inhibitors (Angiotensin Converting Enzyme Inhibitors)

WRITE SHORT NOTES ON:

5X4=20

- 2) Drug Antagonism
- 3) Pethidine
- 4) Vecuronium
- 5) Uses and side effects of Furosemide
- 6) Treatment of status epilepticus

WRITE BRIEFLY ON:

5X2=10

- 7) Write two uses of Digoxin
- 8) What is drug synergism? Give two examples.
- 9) Routes of administration of local anaesthetics
- 10) Write any two uses and adverse effects of Nitrates
- 11) Name two plasma expanders and its uses

Q.P.CODE:505-B

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8

M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2020

SECOND M.B.B.S. EXAMINATION

PHARMACOLOGY

PAPER-II

Time : 2 Hours

Max. Marks : 40

Answer all questions

Draw neat diagrams wherever necessary

- 1) Classify Corticosteroids. Write the uses and adverse effects of Corticosteroid preparations. 3+4+3=10

WRITE SHORT NOTES ON:

5x4=20

- 2) Anti HIV Regimen
- 3) Topical Antifungal Agents
- 4) Vancomycin
- 5) Metoclopramide
- 6) Toxicity Amelioration of Anticancer drugs

WRITE BRIEFLY ON:

5X2=10

- 7) Mention four inhalation steroids in Bronchial Asthma
- 8) Mention the drugs used for treatment of tapeworm infection
- 9) Name two iron chelating agents
- 10) Mention the drugs used in treatment of Thyrotoxicosis
- 11) Write two stimulant Purgatives and its uses

FEBRUARY-2020

Q.P. CODE:507-A

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8

M.B.B.S. DEGREE EXAMINATION - FEBRUARY, 2020

SECOND M.B.B.S. EXAMINATION

PATHOLOGY

(GENERAL PATHOLOGY & HAEMATOLOGY)

PAPER-I

Time : 2 Hours

Max. Marks: 40

Note: Answer all questions

Draw neat diagram wherever necessary

-
- 1) A 32 year old man is admitted with history of weakness and dragging sensation on left side of abdomen. On examination, his liver is enlarged to 3cm below costal margin and spleen is enlarged to 15cm below costal margin. His TLC is increased to 2,30,000/cumm. 2+2+3+3=10
- a) What is the possible diagnosis? What is likely to be the differential leucocyte count.
- b) What is the diagnostic genetic abnormality in this condition?
- c) To which group of diseases, does this entity belong to? Name the other diseases
- d) Give the clinical picture of this disease

WRITE SHORT NOTES ON:

5X4=20

- 2) Tabulate the differences between iron deficiency anemia and Thalassemia major
- 3) Classify bleeding disorders. Give lab diagnosis of Hemophilia A.
- 4) Pathogenesis of Septic Shock
- 5) Role of Prostaglandins in acute inflammation
- 6) Tumor markers

WRITE BRIEFLY ON:

5X2=10

- 7) Name four autosomal dominant disorders
- 8) Write four clinical and lab features of Multiple Myeloma
- 9) Mention four complications of Bacterial Endocarditis
- 10) Give two tests to diagnose Van Willebrand's disease
- 11) Name four viral carcinogens.
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Q.P. CODE:507-B

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8
M.B.B.S. DEGREE EXAMINATION - FEBRUARY, 2020
SECOND M.B.B.S. EXAMINATION

PATHOLOGY
(SYSTEMIC PATHOLOGY)
PAPER-II

Time : 2 Hours

Note : Answer all questions

Max. Marks: 40

Draw neat diagrams wherever necessary

-
- 1) A 56 year old male patient is admitted with swelling of eyelids and puffiness of face. He is a known case of chronic bronchiectases for last 6 years. He has been advised a kidney biopsy. 1+5+2+2=10
- a) What is the most likely diagnosis?
 - b) What are the gross and microscopic findings in kidney in this disease?
 - c) Classify the disease
 - d) Name the special stains for diagnosis

WRITE SHORT NOTES ON:

5X4=20

- 2) Papillary carcinoma of thyroid
- 3) CSF findings in Pyogenic Meningitis
- 4) Gastric Carcinoma – Location, types and metastasis
- 5) Histological types of Malignant Melanoma.
- 6) Types and morphology of seminoma testis

WRITE BRIEFLY ON:

5X2=10

- 7) Classify cirrhosis of liver
- 8) Tabulate the differences between Centriacinar and Panacinar Emphysema
- 9) Classify Hodgkin's disease
- 10) Osteogenic Sarcoma – common sites, radiological and microscopic picture
- 11) Draw a neat diagram of teratoma ovary.

Q.P.CODE:508-A

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

M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2020

SECOND M.B.B.S. EXAMINATION

FORENSIC MEDICINE

Time : 2 Hours

Max. Marks: 40

Note : Answer all questions

Draw neat diagrams wherever necessary

- 1) Define Hanging. Describe the types of hanging. Explain the 2+4+4=10 causes of death due to hanging.

WRITE SHORT NOTES ON:

5X4=20

- 2) Signs of live birth
- 3) Postmortem Lividity
- 4) Enumerate differences between criminal negligence and civil negligence
- 5) Postmortem findings in case of wet drowning
- 6) Types of skull fractures

WRITE BRIEFLY ON:

5X2=10

- 7) Signs and symptoms of Lead poisoning
- 8) Pugilistic attitude
- 9) Whiplash injury
- 10) Section 304(B) of Indian Penal Code
- 11) Perjury
