2106000102010101 Examination February – March 2024 SECOND MBBS PATHOLOGY (PAPER - I) - LEVEL 1

| Time: Three Hours] | [Max. Marks: 100] |
|--|---------------------|
| Instructions: | Seat No: |
| 1. Fill up strictly the following details on your answer book | |
| a. Name of the Examination: SECOND MBBS | |
| Name of the Subject: PATHOLOGY (PAPER - I) - LEVEL I (OMR) | |
| c. Subject Code No: 2106000102010101 | 1 |
| Sketch neat and labelled diagram wherever necessary. | |
| Figures to the right indicate full marks of the question. | |
| 4. All questions are compulsory. | Student's Signature |
| | |
| | |
| 2.1 Multiple choice questions (MCQs). | 20*1= |
| (Instruction: Encircle the correct answer) | |
| 1. Mitochondrial DNA differs from Nuclear DNA in : | |
| a) Being linear and open ended | |
| b) Having two co copies per somatic cell | |
| c) Monocistronic transcription pattern | |
| d) Having Maternal inheritance pattern | |
| Control District | |
| 2. Wear and Tear pigment is: | |
| a) Lipofuscin b) Haemosiderin | |
| c) Melanin d) Bilirubin | |
| | |
| | |

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[1 of 5]

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| 3. | Dystrophic calcification is seen in: | |
|------|---|---------------------------|
| | a) Hypervitaminosis D | b) Williams Syndrome |
| | c) Atheromatous Plaque | d) Renal tubular acidosis |
| 4. | Bradykinin effects include all the follow | wing EXCEPT: |
| | a) Smooth muscle contraction | b) Vasoconstriction |
| | c) Increased Vascular permeability | d) Pain |
| 5. | Wound contraction is mediated by: | ye to easy outstands |
| | a) Collagen | b) Elastin |
| C TO | c) Myofibroblast | d) Granulation tissue |
| 6. | Fifth sign of Inflammation " Functiolae | esa "was given by : |
| | a) Celsus | b) Hunter |
| | c) Virchow | d) Cohnheim |
| 7. | Apoptosis is inhibited by : | |
| | a) P53 | b) _n -myc |
| | c) Ras | d) bcl2 |
| 8. | The most potent antigen presenting cel | l for T lymphocytes is : |
| | a) Dendritic cell | b) NK cell |
| | c) Stem cell | d) Macrophage |
| 9 | Type I hypersensitivity reaction is med | liated by : |
| | a) IgG antibody | b) IgM antibody |
| | c) IgE antibody | d) IgA antibody |
| | gradustered (ct. | 推动 计二年中分 |
| 10. | Red infarct is seen in all EXCEPT: | Carlo West School |
| | a) Lung | b) Liver |
| | c) Intestine | d) Spleen |

| a) Fat embolism | b) Air embolism |
|-------------------------------------|--|
| c) Thromboembolism | d) Amniotic fluid embolism |
| 12. Venous thrombus is associated v | with following feature: |
| a) Tendency to embolise | b) Associated with atheroma |
| c) Often with turbulence | d) Commonly Mural |
| 13. Syphilitic involvement of aorta | is observed mostly in: |
| a) Descending aorta | b) Arch of Aorta |
| c) Abdominal Aorta | d) Bifurcation of Aorta |
| 14. Bombay Phenotype are the indi | viduals who: |
| a) Lack of H genes and therefor | re H substance. |
| b) Possess A and B antigen | Description of the second |
| c) Secrete excessive amount of | H substance |
| d) Lack C, D, E antigens | material and the second |
| 15. "Tombstone" appearance of cel | lls is seen in which type of Necrosis? |
| a) Fibrinoid | b) Coagulative |
| c) Liquefactive | d) Fat |
| | |
| 16. Which of the following is mali | gnant tumour? |
| a) Papilloma | b) Melanoma |
| c) Adenoma | d) Osteoma |
| | |
| 17. Which one of the following is | an example of Metaplasia? |
| a) Changes in skeletal muscles | in athelets |
| b) Changes in Cardiac muscles | s due to hypertension |
| c) Barret's Oesophagus | Mouth to cottain him to make present |
| d) Hormonal changes in breas | |

11. Caisson disease is due to:

| 11 of t | · C Hayring IIIIIOurs | |
|--|--|--|
| 18. Hypercalcaemia is associated with all of t | he following the | - |
| | | |
| | AND SOMETHING | |
| | | |
| | | |
| | | |
| d) Kellar, Sell Sell Sell Sell Sell Sell Sell Sel | | |
| 10 Placental alkaline Phosphatase is raised i | in: | |
| | b) Seminoma | |
| | d) Lymphoma Testis | |
| e) Endodermai Simus tame | granica inte | |
| 20 Polo of L. selectin in inflammation: | | |
| | b) Adhesion | |
| | d) Transmigration | |
| c) Homing | | |
| SECTION - | п | |
| | A Carabata and The | |
| Case based question (compulsory to atter | mpt) | 13 |
| 45 are male intravenous drug abuser preser | nted with weight loss, orai | |
| candidiasis, generalized lymphadenopathya | and symptoms of multiple | |
| opportunistic infections. | | |
| | | 1 |
| a) What is your Probable diagnosis? | to support the diagnosis? | 4 |
| b) Enumerate the investigations carried out | to support me | 5 |
| c) Describe the pathogenesis of the disease | of the Disease | 3 |
| d) Describe the Natural History and stages | of the Discase | 3 |
| Section 19 and 1 | A State of Control of Control of | 27 |
| Long Essay Questions (Attempt any 3 out of 4) | salata de Grafas de la companya de l | 21 |
| Define Apoptosis. Describe the mol | ecular mechanisms of Apoptosis. | 1+5+3 |
| The strate contrasting features of Ap | optosis from Necrosis. | |
| Illustrate comment of sale and to the | the property of the property of the terms | |
| | EXCEPT: a) Small cell carcinoma of the lung b) Squamous cell carcinoma of Lung c) Adult T cell Leukaemia d) Renal cell carcinoma 19. Placental alkaline Phosphatase is raised a) Teratoma c) Endodermal Sinus tumour 20. Role of L- selectin in inflammation: a) Rolling c) Homing SECTION - Case based question (compulsory to atterdate to the carcinoma of the carcinoma drug abuser preservantidates) generalized lymphadenopathyae opportunistic infections. a) What is your Probable diagnosis? b) Enumerate the investigations carried out c) Describe the pathogenesis of the disease d) Describe the Natural History and stages Long Essay Questions (Attempt any 3 out of 4) 1. Define Apoptosis. Describe the modulus treats contrasting features of Ap | a) Small cell carcinoma of the lung b) Squamous cell carcinoma of Lung c) Adult T cell Leukaemia d) Renal cell carcinoma 19. Placental alkaline Phosphatase is raised in: a) Teratoma b) Seminoma c) Endodermal Sinus tumour d) Lymphoma Testis 20. Role of L- selectin in inflammation: a) Rolling b) Adhesion c) Homing d) Transmigration SECTION – II Case based question (compulsory to attempt) 45 yrs male, intravenous drug abuser presented with weight loss, oral candidiasis, generalized lymphadenopathyand symptoms of multiple opportunistic infections. a) What is your Probable diagnosis? b) Enumerate the investigations carried out to support the diagnosis? c) Describe the pathogenesis of the disease. d) Describe the Natural History and stages of the Disease |

| 2. | Define Shock. Enumerate the classification and etiology of Shock. | 1+2+3+3 |
|----|--|--------------|
| | Describe the pathogenesis of Septic Shock. Describe the stages of | |
| | Shock. | and the same |
| 3. | Define Metastasis. Write three different routes of Metastasis. | 1+3+5 |
| | Describe cell biology of Invasion and Metastasis Cascade. | |
| 4. | Describe the pathogenesis of Cell Injury. Write the distinguishing | 5+4 |
| | features of Reversible and Irreversible Cell Injury. | |
| | | |

SECTION - III

Q.4 (Attempt any 8 out of 10) (5 marks Each)

40

- 1) Difference between Transudate and Exudate.
- 2) Describe healing by First intention (Primary Union)
- 3) Enumerate the Liver Function tests and explain the clinical significance of each.
- 4) Enumerate the contrasting features of initiator and promoter carcinogens.
- 5) Describe Mismatched blood transfusion.
- 6) Difference between Kwashiorkor and Marasmus.
- 7) Define Edema. Write pathophysiology of Edema.
- 8) Clinical features and cytogenetic abnormalities of Down Syndrome.
- 9) Enumerate special stains in Amyloidosis.
- 10) Describe Paraneoplastic syndrome.

2106000102010102 Examination February – March 2024 SECOND MBBS PATHOLOGY (PAPER - II) - LEVEL 1

| Instru | ictions: | at the fact of the same of the | Seat No: |
|---|--|--|---------------------|
| 1. Fill up strictly the following details on your answer book | | swer book | 56 |
| | Name of the Examination : SECOND MBBS | | |
| 0. | Name of the Subject : PATHOLOGY (PAF (OMR) | 'ER-II)-LEVELI | |
| | Subject Code No : 2106000102010102 | | |
| 2. Ske | tch neat and labelled diagram wherever necess | sary. | u- |
| 3. Fig 4. All | ures to the right indicate full marks of the ques questions are compulsory. | tion. | |
| 5. No | negative marks | VIII VIII IS SERVER A TO | Student's Signature |
| | Edwin and the Control of the Control | or be reconsent to bearing | Student's Signature |
| | SECTI | ON-I | |
| | The state of the s | Mil ber derbitejare | |
| VERNO: | A SOURCE OF THE | | |
| Q.1 | Multiple choice questions (MCQs). | | 20*1=20 |
| | (Instruction: Encircle the correct answ | er) | |
| | 1. Erythropoietin is produced by | | |
| | a) Liver and the and the | b) Lungs | |
| | c) Bone marrow | d) Kidney | |
| | and the contract to the second to the second | | |
| | Which is NOT SEEN in Megalobl | astic anaemia? | |
| | a) Hyper segmented neutrophil | | |
| | c) Evidence of dyserythropoesis | | |
| | a san terme consultation and a | | |
| | 3. Howell Jolly bodies in red cells se | | |
| | a) Hereditary Spherocytosis | | |
| | c) Post Splenectomy | d) Iron deficiency and | |
| | willing a secondarial terms | the second second | 350 |

| | 4. Thepathognomic abnormality | y in β-thalassaemia minor is: |
|------------------------|--|--|
| | a) marked rise in HbA2 | |
| | b) marked rise in HbF | the state of the s |
| | c) marked unconjugated hyp | oerbilirubinaemia . |
| | d) marked anaemia | PERMITTED AND THE WAR |
| | 5. Small warty vegetations alon | g the lines of closure of Valves on |
| | mitral and aortic valves are o | |
| | a) Infective endocarditis | |
| A SHAPE | b) Rheumatic fever | |
| | c) Libman -Sach's endocard | itis |
| | d) Non-Bacterial thrombotic | |
| | 6. The commonest vessel involv | ved in Myocardial Infarction: |
| | a) Right Coronary artery | red in Myodardian |
| | b) Left Circumflex artery | and the state of t |
| | c) Left Anterior Descending | artery |
| | d) Posterior Descending arte | |
| | 7 Which of the following is ass | ociated with the development of |
| | bronchogenic carcinoma and | |
| | a) Silicosis | b) Asbestosis |
| | c) Siderosilicosis | d) Anthracosis |
| | c) siderosincosis | and beauty afficial and a fin |
| | 8. Patients are designated as pin | k puffers in: |
| | a) Chronic Bronchitis | b) Bronchiectasis |
| | c) Emphysema | d) Pneumoconiosis |
| | | or nephrotic syndrome in adults is: |
| | a) Anasarca with orbital puffi b) 24hrs urinary excretion of p | |
| | | protein 3.5 gm of greater |
| | c) Hypoalbuminemia d) A constellation of hyperten | sion, hyperlipedemia and lipiduria |
| | | Relation on the land |
| | 10. Typical "Grain Leather" appe | |
| | a) Benign nephrosclerosis | b) Malignant nephrosclerosis |
| | c) Nephrocalcinosis | d) Necrotising Papillitis |
| | | |
| | | |
| NAME OF TAXABLE PARTY. | The second secon | A CONTROL OF THE PARTY OF THE P |

| 11. Toxic Megacolon is complicati | on of: |
|--|--|
| a) Crohn's Disease | b) Ulcerative Colitis |
| c) Necrotising Enterocolitis | d) Pseudomembranous Colitis |
| 12. The most common site for hyd | latid cyst is |
| a) Liver | b) Lungs |
| c) Spleen | d) Brain |
| 13. The most common mechanism | in pathogenesis of chronic |
| pyelonephritis is | etter the state of |
| a) Ascending infection | b) Reflux nephropathy |
| c) Obstructive nephropathy | d) Haematogenous infection |
| 14. Cirrhosis in Wilson's disease is | s related to: |
| a) Zinc | b) Copper |
| c) Mercury | d) Iron |
| 15. Ovarian tumour arising from S | stromal cells is: |
| a) Dysgerminoma | Ale a disease now however of |
| b) Brenner tumour | |
| c) Granulosa theca cell tumour | t e |
| d) Krukenberg Tumour | while the leaderness arms and go a |
| 16. Giant cell tumour arises from: | and the second of |
| a) Diaphysis | b) Metaphysis |
| c) Articular cartilage | d) Epiphysis |
| | headean a contract content. It |
| 17. Gout is characterised by depos | |
| a) Uric acid | b) Hydroxy apatite |
| c) Pyrophosphate | d) Urate |
| 18. Mutation characteristic of poly | ycythaemia vera |
| a) JAK2 | b) Bcr-abl |
| c) p53 | d) RAS |
| | |
| THE RESERVE OF THE PARTY OF THE | Unit and the Unit will are the first and the |

| | a) C-cells of thyroid | The state of the s | |
|--------|--|--|--------|
| | | | |
| | c) Parathyroid cells | | |
| | d) Primitive pluripotent co | ell of thyroid | |
| | 20. Which type of Nevus most Melanoma: | t commonly progresses to Malignant | |
| | a) Blue cell Nevus | b) Spindle cell Nevus | |
| | c) Dysplastic Nevus | d) Compound Nevus | |
| | | | |
| | discounted the following country of | | |
| | SE | CTION - II | |
| Q.2 | Case based Question (Compulso | ory to attempt) | 13 |
| | | 0 | |
| | | of chronic alcohol consumption | |
| | | domen .ultrasound scan show reduced | |
| | size of liver. | security of the second | |
| | a. What is the probablediag | nosis? | |
| | a. What is the probableding | nosis | 1 |
| | b. Describe the pathogenesis | s of this condition | 5 |
| | c. Describe gross and micro | scopic findings. | 4 |
| | d. Enumerate three Complic | cations of the condition. | 3 |
| | | the analysis of the same of th | |
| Q.3 | Long Fessy Overtions (Ass | | |
| Q.D | Long Essay Questions: (Attempt | any 3 out of 4) | 9*3=27 |
| | 1. Describe the Clinical feature | s, pathogenesis and Lab findings in | |
| | β Thalassemia Major. | s, pathogenesis and Lab findings in | 3+3+3 |
| | 2 Described 1 | | |
| | of ulcerative colitis. | ross and microscopy & complications | 4+3+2 |
| | 3. Describe the Pathogenesis and | d stages of lober | |
| | | But of room pheumonia. | 3+6 |
| | | | |
| III NO | | | |

19. Medullary carcinoma of thyroid arises from:

| | Describe etiopathogenesis of Hypertension vascular Disease. | Write |
|----|---|-------|
| 4. | About Benign and Malignant Nephrosclerosis. | |

4+5

SECTION - III

O.4 (Attempt any 8 out of 10) (5 marks each)

40

- 1. Describe clinical findings, inheritance in von Willebrand disease.
- Classify germ cell Tumour. Describe Morphological features of Seminoma.
- Describe Major and Minor criteria to diagnose Rhematic Heart disease.
- Write the staging Classification of Hodgkin Lymphoma.
- 5. Giant cell Tumour of Bone
- 6. Atherosclerosis
- 7. Squamous cell carcinoma
- 8. Lab findings in Megaloblastic Anaemia
- 9. Describe morphologic features of Fibroadenoma.
- 10. Describe the Pathogenesis and morphology Of Bronchiectasis.
