

26-12-2022

II-MBBS

01221 A1+01221 A2

Second M.B.B.S. (Main) Examination (New Scheme)

December - 2022

PATHOLOGY

Paper-First

Time: Three Hours

Maximum Marks: 100

Attempt all questions in both sections

(Use separate answer book for each section)

Section-A1. Fill in the blanks:

6 x 1 = 06

- a) In cell death, myelin figures are derived from \_\_\_\_\_.
- b) Oxygen dependent killings is done through \_\_\_\_\_.
- ☒ c) Iron is transported in plasma by \_\_\_\_\_.
- d) Shelf life of whole blood is \_\_\_\_\_.
- ☒ e) Stain for amyloid is \_\_\_\_\_.
- ☒ f) NAP score is low in \_\_\_\_\_.

## 2. Answer the followings (Multiple Choice Questions):

4 x 1 = 04

i) Most common anatomical site for atherosclerosis is

- a) Coronary artery
- ☒ b) Abdominal aorta above the level of renal artery
- c) Abdominal aorta below the level of renal artery
- d) Common iliac artery

ii) In hereditary spherocytosis mutations affecting all of the following can be seen except:

- a) Ankyrin
- ☒ b) Spectrin
- c) Band 4.2
- ☒ d) Glycophorin A

iii) Extrinsic pathway of coagulation is best assessed by:

- ☒ a) PT
- b) APTT
- c) Von Willebrand factor
- d) Clotting time

iv) An increase in reticulocyte count can be seen in all of the following except:

- a) Hemolytic anemia
- b) Blood loss
- ☒ c) Aplastic anemia
- d) Nutritional anemia on treatment

☒ 3. A 30 years old male presented with high grade fever for 5 days. Later, he developed palpitation and breathlessness. On examination pulse rate was 120/min with weak peripheral pulse, blood pressure 80/60 mmHg and respiration rate 25/min.

- ☒ a) What is the probable diagnosis and why?

05

1



- a) Management of gestational hypertension
- b) Methotrexate
- c) Immunosuppressants
- d) Antiplatelet drugs
- e) Eplerenone
- f) Vitamin K

5. Explain why (Any three):

3 x 5 = 15

- a) Furosemide is used in the treatment of acute left ventricular failure.
- b) Levothyroxine T4 is preferred over T3 in hypothyroidism.
- c) Warfarin has a black box warning on its label.
- d) Metformin is used in polycystic ovarian syndrome.

### Section-B

6. A 35 years old female visited medicine department with complaints of cough, evening rise of fever, loss of appetite, weight loss since 1 month. After complete investigations, diagnosis of pulmonary Koch's was made.

- a) Mention the drug regimen for this patient 05
- b) Why multi drug therapy is preferred 03
- c) Write down the side effects of first line drugs 03
- d) Write down the management of XDR tuberculosis 05
- e) Write down the precautions to be taken by the patient 04

7. Write short notes on (Any five):

5 x 2 = 10

- a) Management of *P. falciparum* malaria.
- b) Management of Urinary tract infections.
- c) Amphotericin B.
- d) Uses of corticosteroids.
- e) Treatment of Psoriasis.
- f) COVID-19 vaccine.

8. Explain Why (Any Four):

4 x 5 = 20

- a) Penicillins are combined with beta lactam inhibitors.
- b) ACE inhibitors are given in patients of CHF.
- c) Androgens are used for doping.
- d) Aminoglycosides are used with caution in geriatric patients.
- e) Anticholinergics are contraindicated in glaucoma.