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(NOVEMBER)

Pathology-I

Full Marks: 80

Time: 3 hours

*The figures in the margin indicate full marks for the questions
Answer all questions*

A. Answer any FOUR of the following questions:

(10X4=40)

- 1) Explain tissue processing in detail.
- 2) Explain about the Haematoxylin & Eosin stain and write its general procedure and microscopic observation.
- 3) Explain about ABO and Rh blood grouping system in detail.
- 4) Explain haem synthesis in detail.
- 5) Explain about biomedical waste management in detail.
- 6) Explain coagulation cascade in detail.

B. Write short note on any FOUR of the following:

(5X4=20)

- 1) Chemical examination of urine.
- 2) Microscopic examination of CSF.
- 3) Forward typing.
- 4) Cerebrospinal fluid and its functions.
- 5) Write the procedure of Haemoglobin estimation using Sahli's haemoglobinometer.

C. Answer the following questions briefly:

(2X10=20)

- 1) Define decalcification of tissue and give example of one decalcifying agent.
- 2) Define crossmatching and write its important types.

Turn over

- 3) Define anaemia and classify it based on morphology.
- 4) Give examples of four different types of vials commonly used in haematology laboratory and blood bank.
- 5) Give examples of four different types of microtomes.
- 6) Name the apparatus used for the estimation of ESR and write the normal reference range of ESR for both adult male and female.
- 7) Define tissue processing.
- 8) Write the different types of blood groups according to ABO and Rh blood grouping system.
- 9) Write the chemical agents used for dehydration and clearing during tissue processing.
- 10) Define fixation and mention the most commonly used fixative in histopathology laboratory.

(SS/BMLT-II/PATH-I/11-23)