

**SS/MBBS-II/2<sup>nd</sup> IA/SUR/09-23****2023****(September)****SURGERY****Full Marks: 100****Time: 3 hours****The figures in the margin indicate full marks for the questions****Answer all questions**

1. Define prophylactic antibiotic therapy. Describe appropriate plan of antibiotic therapy on a patient in septic shock. 5+10=15
2. What is Surgical Site Infection (SSI)? Name the commonly involved pathogens in SSI. Enumerate the risk factors for the development of surgical wound infection. Discuss briefly about prevention of wound infection. 2+3+5+5=15
3. A female patient of 20 years of age came to the emergency service with diagnosis of fulminating acute appendicitis. It was discussed and decided to carry out emergency appendicectomy on the patient. Elaborate the investigations, pre-operative preparation and post-operative management of the patient. 4+3+3=10
4. Write short notes on: **5x8=40**
  - a) Systemic Inflammatory Reaction Syndrome (SIRS).
  - b) Complications of blood transfusion.
  - c) Oncogene.
  - d) Perioperative care for a surgical patient.
  - e) Basic concepts of homeostasis.
  - f) Multidisciplinary approach to cancer management.
  - g) Massive blood transfusion.

h) Cold abscess.

5. A patient reported with severe blood loss requiring blood transfusion. What are the ethical issues to be addressed for the process of blood transfusion? 5

**6. Answer briefly:**

**2x5=10**

- a) Enumerate biomarkers of acute inflammation.
- b) Name two avoidable factors that compound the response to injury.
- c) Name two characteristics of malignant cell.
- d) Enumerate indications of blood transfusion.
- e) Name the phases of physiological response to injury.

**7. Choose the correct option:**

**1x5=5**

i. Cryoprecipitate contains

- a) Factor II
- b) Factor IX
- c) Factor V
- d) Factor VIII

ii. The ebb phase begins at the time of injury and lasts for approximately

- a) < 24 hours
- b) 24 - 48 hours
- c) 48 - 72 hours
- d) 72 - 96 hours

iii. Which of the given option holds true for the following statement: "There is upto a \_\_\_\_\_ interval before bacterial growth becomes established enough to

cause an infection after a breach in the tissues, whether caused by trauma or surgery. This interval is called the \_\_\_\_\_."

- a) 6 hours, decisive period
- b) 4 hours, decisive period
- c) 6 hours, window period
- d) 4 hours, window period

iv. The discovery of antibiotic penicillin was attributed to Alexander Fleming in

- a) 1924
- b) 1928
- c) 1929
- d) 1941

v. The best prognostic biomarker is

- a) CRP
- b) PCT
- c) LDH
- d) Serum lactate

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