



BRAINWARE UNIVERSITY

Term End Examination 2023-2024

Programme – B.Sc.(OTT)-2021

Course Name – Basics of Surgical Procedures

Course Code - BOTT501

(Semester V)

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

(i) Choose the primary function of the kidneys?

- | | |
|--------------------------|---------------------------------------|
| a) Digestion of food | b) Blood filtration and waste removal |
| c) Production of insulin | d) Storage of bile |

(ii) Name the instrument that is used to grasp and remove the gallbladder from the abdomen?

- | | |
|------------------|----------------|
| a) Suture needle | b) Laparoscope |
| c) Endoscope | d) Grasper |

(iii) Name the electrolyte that is primarily responsible for maintaining the body's acid-base balance.

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|--------------------------------|---|
| a) Sodium (Na ⁺) | b) Potassium (K ⁺) |
| c) Calcium (Ca ⁺⁺) | d) Bicarbonate (HCO ₃ ⁻) |

(iv) In sterilization technology, select what "low-temperature sterilization" refer to?

- | | |
|---|--|
| a) Sterilization at temperatures below freezing | b) Sterilization at temperatures below 100°C |
| c) Sterilization at room temperature | d) Sterilization using dry heat |

(v) Identify the minimum temperature required in autoclaving for effective sterilization.

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|----------|----------|
| a) 50°C | b) 75°C |
| c) 100°C | d) 150°C |

(vi) Select how many active electrodes are used by bipolar diathermy.

- | | |
|----------|---------|
| a) One | b) Two |
| c) Three | d) Four |

(vii) State which type of diathermy is considered safer in terms of electrical burns.

- | | |
|------------------------|----------------------|
| a) Monopolar diathermy | b) Bipolar diathermy |
| c) Ligasure | d) Harmonic Scalpel |

- (viii) Select how often should you clean the lens or diffuser of an operation light.
- a) Never
b) After each surgery
c) Once a year
d) Only when visibly dirty
- (ix) Choose which type of operation light is designed to be portable and flexible in its positioning.
- a) Ceiling-mounted light
b) Wall-mounted light
c) Mobile light
d) Floor lamp
- (x) Select the recent advance in sterilization technology that utilizes plasma to kill microorganisms.
- a) Steam sterilization
b) Chemical sterilization
c) Plasma sterilization
d) UV sterilization
- (xi) Write is full form of APR surgery?
- a) Abdominoperineal Resection
b) Abdominoperineal Removal
c) Abdominoperineal Reduction
d) Anteriorperineal Resection
- (xii) Choose the primary contraindication for total thyroidectomy surgery?
- a) Hypothyroidism
b) Large thyroid nodules
c) Pregnancy
d) Severe goiter
- (xiii) Choose which type of surgery is commonly performed with the patient in the prone position.
- a) Open-heart surgery
b) Spinal surgery
c) Abdominal surgery
d) Neurosurgery
- (xiv) Choose the first step in treating someone with heatstroke?
- a) Giving them a warm beverage
b) Applying hot compresses to their forehead
c) Moving them to a cooler environment
d) Wrapping them in warm blankets
- (xv) Induced surgical hypothermia is defined as?
- a) A technique to raise the patient's body temperature during surgery
b) A method to reduce the patient's core body temperature intentionally during surgery
c) A type of anesthesia used in surgery
d) A method to increase blood pressure during surgery

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Explain Abdominoperineal Resection (APR) surgery and its complications. (3)
3. Explain Thyroidectomy surgery and its types. (3)
4. Define why a pre-transfusion check is necessary for blood transfusion. (3)
5. Define surgical diathermy and enumerate different types of surgical diathermy (3)
6. Explain indications of the Tracheostomy surgery. (3)

OR

Explain Laparoscopic Cholecystectomy and its indications. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Explain different types of blood products. (5)
8. Explain the operation theatre table, structure, and features. (5)
9. Explain Nephrectomy Surgery. (5)
10. Explain Breast surgery. (5)
11. Explain Surgical Induced Hypothermia and Indications. (5)

12. Explain why Surgical Positions are necessary for the surgery.

(5)

OR

Explain different types of surgical positions.

(5)
