

Regn. No.....

Paper Code: BOT-101...

**B.Sc. MEDICAL TECHNOLOGY (OPERATION THEATRE)**  
**FIRST YEAR EXAMINATION, JULY-2018**  
**ANATOMY, PHYSIOLOGY AND PHARMACOLOGY**  
**PAPER - I**

[Time allotted: Three hours]

[Max Marks: 70]

Note: Attempt all questions

Draw suitable diagrams wherever necessary

**A : Short answer questions:**

(7 x 8 = 56)

**ANATOMY**

- Q. 1. Write short notes on cubital fossa (Boundaries, Contents, Applied). (7)
- Q. 2. Write short notes on abdominal aorta & its branches. (7)

**PHYSIOLOGY**

- Q. 3. Draw labeled diagram of pulmonary and systemic circulation. Discuss the different blood vessels and the functions they perform. Define circulatory shock and its types. (2+3+2=7)
- Q. 4. Enumerate the components of blood and their functions? Discuss the mechanism of formation of clot? (4+3=7)

**PHARMACOLOGY**

- Q. 5. Describe inhalational anaesthetic agents. (7)
- Q. 6. Classify the local anesthetic agents. Write about lignocaine. (7)
- Q. 7. Write in short: (3.5+3.5=7)
- a. Classification of antimicrobial agents based on mechanism of action
  - b. Antimicrobial drug resistance
- Q. 8. Write in short: (3.5+3.5=7)
- a. Mechanism of action and two important adverse effects of adrenaline
  - b. Pre-anaesthetic medications

**B.Sc. MEDICAL TECHNOLOGY (OPERATION THEATRE)**  
**FIRST YEAR EXAMINATION, JULY-2018**  
**ANATOMY, PHYSIOLOGY AND PHARMACOLOGY**  
**PAPER - I (MCQ)**

Time allotted for MCQ-30 minutes

**B : MCQs (Single response type):**

(½ x 28= 14)

Select the most appropriate answer and encircle the alphabet against it-

**ANATOMY**

1. Pulsations of facial artery can be palpated at:
  - a. Anterio-inferior angle of masseter
  - b. Posterio-inferior angle of masseter
  - c. Anterio-superior angle of masseter
  - d. Posterio-superior angle of masseter
2. Internal carotid artery supplies mainly the structures of:
  - a. Neck
  - b. Scalp
  - c. Brain
  - d. Face
3. Dangerous area of face is:
  - a. Lower lip
  - b. Upper lip
  - c. Upper lip & tip of nose
  - d. Cheeks
4. In adults spinal cord extends up to:
  - a. Lower border of L3 vertebra
  - b. Upper border of L3 vertebra
  - c. Lower border of L1 vertebra
  - d. Upper border of L1 vertebra
5. All are features of large intestine **except**:
  - a. Appendices epiploicae
  - b. Haustrations
  - c. Taenia coli
  - d. Villi
6. Portal vein is formed behind the:
  - a. Head of pancreas
  - b. Neck of pancreas
  - c. Body of pancreas
  - d. Tail of pancreas
7. Gall bladder pain is referred to:
  - a. Tip of right shoulder
  - b. Tip of left shoulder
  - c. Umbilicus
  - d. Back
8. Brodmann's number of primary motor area is:
  - a. Area no. 4
  - b. Area no. 3, 1, 2
  - c. Area no. 8
  - d. Area no. 17, 18, & 19
9. Appendix is present in:
  - a. Right hypochondrium
  - b. Left hypochondrium
  - c. Right iliac fossa
  - d. Left iliac fossa
10. Name of the first cervical vertebra is:
  - a. Axis
  - b. Vertebra prominens
  - c. Atlas
  - d. None of the above
11. Circle of Willis is formed by anastomosis of:
  - a. Anterior, middle & posterior cerebral artery
  - b. Anterior inferior cerebellar artery & posterior inferior cerebellar artery
  - c. Anterior cerebral artery & posterior inferior cerebellar artery
  - d. Posterior cerebral artery & anterior inferior cerebellar artery
12. Aortic opening is present in thoraco-abdominal diaphragm at the level of:
  - a. T6 vertebra
  - b. T10 vertebra
  - c. T8 vertebra
  - d. T12 vertebra

## PHYSIOLOGY

13. Urine is formed by all of the following processes

except:

- a. Ultra filtration
- b. Tubular reabsorbtion
- c. Micturation
- d. Tubular secretion

14. Bluish discoloration of skin and mucosal membrane is called as:

- a. Asphyxia
- b. Anemia
- c. Cyanosis
- d. Dyspnea

15. Voluntary muscles include the:

- a. Multiunit smooth muscle
- b. Cardiac muscle
- c. Biceps
- d. Visceral smooth muscle

16. AB -ve blood group will have:

- a. Antigen A
- b. Antibody A & B
- c. Antigen A & B
- d. Antigen B

17. Hormones secreted by anterior pituitary are all

except:

- a. TSH
- b. B) FSH
- c. C) ADH
- d. D) ACTH

18. Intrinsic factor is required for absorption of:

- a. Iron
- b. Vitamin C
- c. Vitamin B1
- d. Vitamin B12

19. Stroke volume is defined as volume of blood:

- a. Ejected by both ventricle per min
- b. Ejected by both ventricle per beat
- c. Ejected by each ventricle per beat
- d. Ejected by each ventricle per min

20. Volume of air breathed in or out during normal breathing is called as :

- a. Dead space volume
- b. Tidal volume
- c. Inspiratory reserve volume
- d. Residual volume

21. All are the functions of kidney except:

- a. Glycogen storage
- b. Acid base balance
- c. Water overload
- d. Erythropoietin secretion

22. The conducting system of human heart comprises of all except:

- a. SA Node
- b. Sinus venosus
- c. Purkinje fibres
- d. Bundle of his

23. Myelination in nerve cells in peripheral nerves is done by:

- a. Schwann cells
- b. Glial cells
- c. Oligo-dendrocytes
- d. Microglia cells

24. Stimulation of sympathetic nerve causes:

- a. Constriction of pupil
- b. Fixation of pupil
- c. Dilation of pupil
- d. No change in pupil

## PHARMACOLOGY

25. Maximum bioavailability is seen with which route?

- a. Intravenous
- b. Oral
- c. Rectal
- d. Intramuscular

26. Diffusion hypoxia is seen with:

- a. Ketamine
- b. Halothane
- c. Succinyl choline
- d. Nitrous oxide

27. Which of the following is not amide linked local anaesthetics:

- a. Prilocaine
- b. Benzocaine
- c. Bupivacaine
- d. Lignocaine

28. Adrenaline is preferably given by which route in anaphylactic shock?

- a. Intramuscular
- b. Intravenous
- c. Intradermal
- d. Subcutaneous

**B.Sc. MEDICAL TECHNOLOGY (OPERATION THEATRE)****FIRST YEAR EXAMINATION, JULY - 2018****PATHOLOGY, BIOCHEMISTRY, MICROBIOLOGY & PATIENT CARE / EQUIPMENTS / MACHINES  
PAPER - II****[Time allotted: Three hours]****[Max Marks: 70]****Note:** Attempt all questions

Draw suitable diagrams wherever necessary

**A : Short answer questions:****(7 x 9 = 63)****PATHOLOGY**

- Q. 1. What is anemia? Discuss in brief about various types of anemias.
- Q. 2. What is ATR? How you will work up a case of ATR who comes to you?

**BIOCHEMISTRY**

- Q. 3. Write short notes on:
- a. Blood sugar : Fasting and Post Prandial
  - b. Functions of proteins
- Q. 4. Write short notes on the following Function Tests:
- a. Liver function tests
  - b. Renal function tests

**MICROBIOLOGY**

- Q. 5. Write short notes on laboratory diagnosis of HIV infection.
- Q. 6. Discuss OT and ICU fumigation.

**PATIENT CARE**

- Q. 7. Enumerate the steps of hand washing.
- Q. 8. Enumerate the different colours of bags for biomedical waste disposal. What items go in which bag?
- Q. 9. Draw a neat well labelled diagram of classic LMA.

**B.Sc. MEDICAL TECHNOLOGY (OPERATION THEATRE)****FIRST YEAR EXAMINATION, JULY - 2018****PATHOLOGY, BIOCHEMISTRY, MICROBIOLOGY & PATIENT CARE / EQUIPMENTS / MACHINES****PAPER - II (MCQ)****Time allotted for MCQ-15 minutes****B : MCQs (Single response type):****(½ x 14= 7)**Select the most appropriate answer and **encircle** the alphabet against it**PATHOLOGY**

1. Universal donor blood group is:
  - a. Blood group A
  - b. Blood group B
  - c. Blood group O
  - d. All of them
2. Which of the following disease can be transmitted through blood transfusion?
  - a. HIV
  - b. Typhoid
  - c. Kala-azar
  - d. Tuberculosis

**BIOCHEMISTRY**

3. All are included in lipid profile **except**:
  - a. HDL
  - b. LDL
  - c. Triglyceride
  - d. Polysaccharide
4. Which is assessed under renal function test:
  1. Glucose
  2. Urea
  3. Amino acids
  4. Cholesterol

**MICROBIOLOGY**

5. Which of the following can be transmitted by aerosols?
  - a. Staphylococcus
  - b. E. Coli
  - c. Hepatitis B
  - d. M. Tuberculosis
6. Gamma radiations can be used for sterilization of:
  - a. Plastic syringes
  - b. Catheters
  - c. Swabs
  - d. All of the above

**PATIENT CARE**

7. Hand should be washed for about:
  - a. 5 min
  - b. 10 min
  - c. 15 min
  - d. 20 min
8. Cholecystectomy refers to removal of:
  - a. Kidney
  - b. Gall bladder
  - c. Intestine
  - d. Stomach
9. APGAR score is used to assess:
  - a. Pain status
  - b. Ventilatory status
  - c. Survival of newborn
  - d. Head injury
10. Magill forceps is **not** used for:
  - a. To guide endotracheal tube
  - b. To pack throat
  - c. To remove foreign body
  - d. For local spray in throat
11. Premedication is given before surgery:
  - a. To reduce secretions
  - b. To make patient quite
  - c. To reduce incidence of post-operative nausea and vomiting
  - d. All of the above
12. Pin index for oxygen is:
  - a. 2,5
  - b. 3,5
  - c. 3,6
  - d. 1,5
13. Magill circuit is known as:
  - a. Mapleson A
  - b. Mapleson D
  - c. Mapleson F
  - d. All of the above
14. Colour of oxygen cylinder is:
  - a. Blue
  - b. Orange
  - c. Black and white
  - d. Purple

Lib

Regn. No. DD.....

Paper Code: BOT101

**B.Sc. MEDICAL TECHNOLOGY (OPERATION THEATRE)  
FIRST YEAR EXAMINATION, AUGUST - 2019  
ANATOMY, PHYSIOLOGY AND PHARMACOLOGY  
PAPER - I**

[Time allotted: Three hours]

[Max Marks: 70]

**Note:** Attempt all questions

Draw suitable diagram wherever necessary

**A : Short answer questions:**

(7 x 8 = 56)

**ANATOMY**

- Q. 1.** Discuss femoral triangle under following headings: boundaries, contents and applied. (7)
- Q. 2.** Draw well labelled diagram/flow diagram showing cerebrospinal fluid circulation. Write a note on its applied aspects. (5+2)

**PHYSIOLOGY**

- Q. 3.** Enumerate types of blood vessels & their functions. Define circulatory shock & describe its types. What is effect of autonomic nervous system on heart & vessels? (2+ 3+2)
- Q. 4.** Enumerate the components of blood and their functions. Discuss the mechanism of formation of clot. What are investigatory tests to assess the haemostatic defects? (2+3+2)

**PHARMACOLOGY**

- Q. 5.** Describe mechanism of action & adverse drug reactions of morphine. (7)
- Q. 6.** Write the management of anaphylactic shock. (7)
- Q. 7.** Explain intravenous route of drug administration. (7)
- Q. 8.** Discuss the uses & adverse effects of warfarin. (7)

**B.Sc. MEDICAL TECHNOLOGY (OPERATION THEATRE)  
FIRST YEAR EXAMINATION, AUGUST - 2019  
ANATOMY, PHYSIOLOGY AND PHARMACOLOGY  
PAPER - I (MCQ)**

Time allotted for MCQ- 30 minutes

(½ x 28 = 14)

**B : MCQs (Single response type):**

Select the most appropriate answer and **encircle** the alphabet against it.

**ANATOMY**

1. In adults spinal cord terminates at:
  - a. Lower border of L1
  - b. Lower border of L2
  - c. Lower border of T12
  - d. Lower border of S1
2. Musculocutaneous nerve innervate the muscle:
  - a. Triceps
  - b. Brachio-radialis
  - c. Pronator teres
  - d. Coraco-brachialis
3. Sternal angle lies at the level of vertebra:
  - a. L1
  - b. S1
  - c. C6
  - d. T4
4. Facial artery is branch of:
  - a. Internal carotid artery
  - b. External carotid artery
  - c. Brachiocephalic trunk
  - d. Subclavian artery
5. Largest carpal bone is:
  - a. Lunate
  - b. Capitate
  - c. Hamate
  - d. Scaphoid
6. Appendix lies in:
  - a. Right hypochondrium
  - b. Left hypochondrium
  - c. Right inguinal region
  - d. Left inguinal region
7. Thickest nerve of body is:
  - a. Sural nerve
  - b. Saphenous nerve
  - c. Sciatic nerve
  - d. Axillary nerve
8. All are part of brain stem **except**:
  - a. Midbrain
  - b. Pons
  - c. Medulla
  - d. Thalamus
9. Epiglottis is cartilage of:
  - a. Orbit
  - b. Pharynx
  - c. Larynx
  - d. Uterus
10. Depressor of jaw is:
  - a. Temporalis
  - b. Masseter
  - c. Lateral pterygoid
  - d. Medial pterygoid
11. Ear ossicles are all **except**:
  - a. Malleus
  - b. Incus
  - c. Stapes
  - d. Temporal
12. Brachial artery is palpable in:
  - a. Axilla
  - b. Cubital fossa
  - c. Popliteal fossa
  - d. Neck

**PHYSIOLOGY**

13. True about glomerular filtration rate is:
  - a. 125ml/day
  - b. For one nephron
  - c. 180ml/day
  - d. Autoregulated
14. Muscles of inspiration are all **except**:
  - a. Diaphragm
  - b. Internal intercostal
  - c. Sternocleidomastoid
  - d. Ext intercostal
15. All are striated muscles **except**:
  - a. Skeletal muscle
  - b. Cardiac muscle
  - c. Smooth muscle
  - d. Biceps

16. AB negative blood group will have:
- Antibody Rh
  - Antigen Rh
  - Antibody A & B
  - Antigen A & B
17. ECF comprises of all **except**:
- Blood
  - Fluid in the cell
  - Lymph
  - Fluid in the sac
18. Acid in stomach is secreted by:
- Chief cells
  - Gastrin cells
  - Mucin cells
  - Parietal cells
19. True about pulmonary circulation is:
- High pressure circulation
  - Pulmonary artery has oxygenated blood
  - Has systolic pressure of 120mm Hg
  - Pulmonary vein has oxygenated blood
20. Volume of air that do **not** take part in exchange of gases in resting condition is called as:
- Dead space volume
  - Functional residual capacity
  - Inspiratory reserve volume
  - Residual volume
21. All are functions of GIT **except**:
- Provide immunity
  - Absorbs  $\text{Ca}^{2+}$
  - Digest fibres
  - Secrete cholesterol
22. Pacemaker of human heart is:
- Sinus venosus
  - SA node
  - AV node
  - Bundle of His
23. True about secretions of posterior pituitary are:
- ACTH
  - From hypothalamus
  - Gnrh
  - From pitucytes
24. Stimulation of sympathetic nerve causes:
- Constriction of pupil
  - Fixation of pupil
  - Dilation of pupil
  - No change in pupil

### PHARMACOLOGY

25. Which of the following drug is fluoroquinolone?
- Diazepam
  - Ciprofloxacin
  - Fluoxetine
  - Digitalis
26. Antidote for paracetamol poisoning is:
- Naloxone
  - Diazepam
  - N-acetylcysteine
  - Atropine
27. Which of the following drug is an intravenous inducing agent in anaesthesia?
- Halothane
  - Atropine
  - Propofol
  - Dopamine
28. Maximum bioavailability is seen with which route?
- Oral
  - Intravenous
  - Rectal
  - Subcutaneous

**B.Sc. MEDICAL TECHNOLOGY (OPERATION THEATRE)**  
**FIRST YEAR EXAMINATION, AUGUST - 2019**  
**PATHOLOGY, BIOCHEMISTRY, MICROBIOLOGY & PATIENT CARE / EQUIPMENTS / MACHINES**  
**PAPER - II**

[Time allotted: Three hours]

[Max Marks: 70]

**Note:** Attempt all questions

Draw suitable diagrams wherever necessary

**A : Short answer questions:**

(7 x 9 = 63)

**Pathology**

- Q. 1.** Write about the components prepared in blood bank. Give two uses of each.
- Q. 2.** What are the types of anticoagulants? Discuss mechanism of action of any one anticoagulant.

**Biochemistry**

- Q. 3.** Describe liver function tests in detail.
- Q. 4.** What are the normal blood protein levels? Give an account on functions of plasma proteins.

**Microbiology**

- Q. 5.** Write short notes on:
- a. Hospital waste management
  - b. Culture media
- Q. 6.** Write short notes on:
- a. Laboratory diagnosis of HIV infection
  - b. OT and ICU fumigation

**Patient Care**

- Q. 7.** Describe safety features of Boyle's anaesthesia machine.
- Q. 8.** Describe monitoring of patient during perioperative period and its role for better patient outcome.
- Q. 9.** Describe briefly instruments and equipments required for anticipated difficult airway.

**B.Sc. MEDICAL TECHNOLOGY (OPERATION THEATRE)**

**FIRST YEAR EXAMINATION, AUGUST - 2019**

**PATHOLOGY, BIOCHEMISTRY, MICROBIOLOGY & PATIENT CARE / EQUIPMENTS / MACHINES**

**PAPER - II (MCQ)**

Time allotted for MCQ - 15 minutes

**B : MCQs (Single response type):**

(½ x 14 = 7)

Select the most appropriate answer and **encircle** the alphabet against it.

**PATHOLOGY**

1. Most common leukemia seen in children is:
  - a. ICML
  - b. ALL
  - c. AML
  - d. CLL
2. The most definite feature of malignant tumor is:
  - a. Loss of capsule
  - b. Necrosis
  - c. Metastasis
  - d. Pain

**BIOCHEMISTRY**

3. Following test is done to assess the tubular function of kidneys:
  - a. Creatinine clearance
  - b. Urea clearance
  - c. Urine dilution test
  - d. All of the above
4. Cholesterol can synthesis:
  - a. Vitamin D
  - b. Steroid hormone
  - c. Bile salts
  - d. All of the above

**MICROBIOLOGY**

5. Gamma radiations can be used for sterilization of:
  - a. Plastic syringes
  - b. Catheters
  - c. Swabs
  - d. All of the above
6. Which of the following disease is mainly transmitted by aerosols?
  - a. Tetanus
  - b. Cholera
  - c. Hepatitis B
  - d. Tuberculosis

**PATIENT CARE**

7. Which cylinder has black body and white shoulders?
  - a. Nitrous oxide
  - b. Carbon dioxide
  - c. Oxygen
  - d. Entonox
8. Pin Index of nitrous oxide is:
  - a. 2,5
  - b. 3,5
  - c. 3,6
  - d. 1,5
9. Colour code for isoflurane vaporizer:
  - a. Red
  - b. Purple
  - c. Yellow
  - d. Orange
10. What is the type of Jackson Rees circuit?
  - a. D
  - b. A
  - c. E
  - d. F
11. Enteral route is better than parenteral route because:
  - a. It has less complications
  - b. Atrophy of luminal brush border of GIT can be prevented
  - c. It is less expensive
  - d. All of the above
12. Most common source of ICU infection is:
  - a. Pulmonary
  - b. Urinary
  - c. Wound
  - d. I.V catheters
13. Commonly used laryngoscope blade for intubating infants:
  - a. Miller
  - b. McCoy
  - c. Macintosh
  - d. None of the above
14. Which is **not** endotracheal tube?
  - a. R.A.E
  - b. Double lumen
  - c. Proseal
  - d. Flexometallic

Regn. No DD.....

Paper Code: BOT101

**B.Sc. MEDICAL TECHNOLOGY (OPERATION THEATRE)  
FIRST YEAR EXAMINATION, SEPTEMBER - 2020  
ANATOMY, PHYSIOLOGY AND PHARMACOLOGY  
PAPER - I**

[Time allotted: Two Hours]

[Max Marks: 70]

Note: Attempt all questions

Draw suitable diagram wherever necessary

**A : Short answer questions:**

(06 x 10 = 60)

**ANATOMY**

- Q. 1. Write short notes on boundaries, contents and applied anatomy of the femoral triangle. (10)
- Q. 2. Write short notes on formation and branches of brachial plexus. (10)

**PHYSIOLOGY**

- Q. 3. Define blood pressure. Enumerate its main components giving normal values of each and Write briefly on methods of recording blood pressure. (10)
- Q. 4. Give the composition and functions of blood. (10)

**PHARMACOLOGY**

- Q. 5. Write the management of anaphylactic shock. (10)
- Q. 6. Classify general anesthetic agents. Write in brief about Pre-anesthetic medication. (10)

**B.Sc. MEDICAL TECHNOLOGY (OPERATION THEATRE)**  
**FIRST YEAR EXAMINATION, SEPTEMBER - 2020**  
**ANATOMY, PHYSIOLOGY AND PHARMACOLOGY**  
**PAPER - I**  
**(MCQ)**

**Time allotted for MCQ - 15 minutes**

**(01 x 10 = 10)**

**B : MCQs (Single response type):**

Select the most appropriate answer and encircle the alphabet against it-

**PHARMACOLOGY**

1. Antidote for paracetamol toxicity is:
  - a. Flumazenil
  - b. Naloxone
  - c. N-acetyl cysteine
  - d. Adrenaline
2. Bioavailability of 100% is seen with which route:
  - a. Oral
  - b. Rectal
  - c. Intramuscular
  - d. Intravenous
3. All of the following are adverse effects of morphine **except**:
  - a. Diarrhoea
  - b. Respiratory depression
  - c. Histamine release
  - d. Sedation
4. Intravenous inducing agent in anaesthesia is:
  - a. Nitrous oxide
  - b. Propofol
  - c. Halothane
  - d. Isoflurane
5. Maximum bioavailability is seen with which route:
  - a. Intravenous
  - b. Oral
  - c. Rectal
  - d. Intramuscular
6. Diffusion hypoxia is seen with:
  - a. Ketamine
  - b. Halothane
  - c. Succinylcholine
  - d. Nitrous oxide
7. Which of the following drugs should be avoided in peptic ulcer patients:
  - a. Ranitidine
  - b. Omeprazole
  - c. Aspirin
  - d. Amoxycillin
8. Warfarin is a:
  - a. Thrombolytic
  - b. Anticoagulant
  - c. Non-opioid analgesic
  - d. Antiplatelet drug
9. Local anaesthetic agents act by inhibiting:
  - a. Sodium channels
  - b. Potassium channels
  - c. Calcium channels
  - d. Chloride channels
10. Which of the following is a bactericidal agent?
  - a. Aminoglycosides
  - b. Tetracycline
  - c. Sulphonamide
  - d. Erythromycin

Regn. No. DD.....

Paper Code: BOT102

**B.Sc. MEDICAL TECHNOLOGY (OPERATION THEATRE)**

**FIRST YEAR EXAMINATION, SEPTEMBER - 2020**

**PATHOLOGY, BIOCHEMISTRY, MICROBIOLOGY & PATIENT CARE / EQUIPMENTS / MACHINES  
PAPER - II**

**[Time allotted: Two Hours]**

**[Max Marks: 70]**

**Note:** Attempt all questions

Draw suitable diagrams wherever necessary

**A : Short answer questions:**

**(05 x 10 = 50)**

**Pathology**

**Q. 1.** Describe types of wound healing. Also describe factors affecting wound healing.

**Biochemistry**

**Q. 2.** Write about the sources and biological functions of calcium and add a note on diseases due to abnormal level of calcium in body.

**Microbiology**

**Q. 3.** Write a note on segregation and management of biomedical waste.

**Patient Care**

**Q. 4.** Describe briefly the procedure of I/V cannulation and the items required.

**Q. 5.** Describe the check list followed before taking the patient in O.T for surgery.

**B.Sc. MEDICAL TECHNOLOGY (OPERATION THEATRE)****FIRST YEAR EXAMINATION, SEPTEMBER - 2020****PATHOLOGY, BIOCHEMISTRY, MICROBIOLOGY & PATIENT CARE / EQUIPMENTS / MACHINES****PAPER - II****(MCQ)****Time allotted for MCQ - 20 minutes****B: MCQs (Single response type):****(01 x 20 = 20)**Select the most appropriate answer and **encircle** the alphabet against it**PATHOLOGY**

1. Patient with blood group A will have the following antibodies in his plasma
  - a. Anti A
  - b. Anti B
  - c. Both Anti A and Anti B
  - d. Neither Anti A or Anti B
2. Biopsy specimen are to be transported to pathology lab in:
  - a. Normal saline
  - b. Formal saline
  - c. Distilled water
  - d. Ringer lactate
3. Megaloblastic anemia is caused by:
  - a. Iron deficiency
  - b. Vitamin B12/folic acid deficiency
  - c. None of the above
  - d. Both of the above
4. Blood donors are screened for the following infections:
  - a. Hepatitis B
  - b. Malaria
  - c. Human immunodeficiency virus
  - d. All of the above
5. The most definite feature of malignant tumor is:
  - a. Loss of capsule
  - b. Necrosis
  - c. Metastasis
  - d. Pain

**BIOCHEMISTRY**

6. All of the following are serum proteins **except**:
  - a. Albumin
  - b. Fibrinogen
  - c. Keratin
  - d. Globulin
7. The normal value of serum calcium is:
  - a. 6-8 mg/dl
  - b. 3.5-5 mg/dl
  - c. 8.7-10.6 mg/dl
  - d. 135-145 mg/dl
8. All are included in lipid profile **except**:
  - a. HDL
  - b. LDL
  - c. Triglyceride
  - d. Polysaccharide
9. Which is assessed under renal function test?
  - a. Glucose
  - b. Urea
  - c. Amino acids
  - d. Cholesterol
10. Which is a plasma protein?
  - a. Albumin
  - b. Glucose
  - c. Cholesterol
  - d. DNA

PTO/-

## **MICROBIOLOGY**

11. Sharp instruments are discarded in:
- Yellow bin
  - Blue bin
  - Green bin
  - Metal container
12. OT gowns are sterilized by:
- Hot air oven
  - Boiling
  - Autoclave
  - Inspissation
13. Gloves are discarded in:
- Yellow bin
  - Blue bin
  - Green bin
  - Metal container
14. Most commonly used disinfectant for endoscopes is:
- Glutaraldehyde
  - Carbolic acid
  - Ethyl alcohol
  - Ethylene oxide gas
15. Who is called the Father of Microbiology:
- Robert Koch
  - Edward Jenner
  - Louis Pasteur
  - Joseph Lister

## **PATIENT CARE**

16. Oxygen cylinder has:
- Black body with white shoulder
  - White body with black shoulder
  - Blue body
  - Black and white check
17. Pin index of nitrous oxide is:
- 3,2
  - 3,5
  - 2,6
  - 1,5
18. Colour code of desflurane is:
- Red
  - Blue
  - Purple
  - Orange
19. Magill's circuit is:
- Type D
  - Type E
  - Type A
  - Type B
20. Size of soda lime granules:
- 2 - 4 mesh
  - 4 - 8 mesh
  - 6 - 8 mesh
  - 10 - 14 mesh