### STATE MEDICAL FACULTY OF WEST BENGAL

## Preliminary Examinations for Diploma in Operation Theatre Technology Course

#### Paper - I Basic Sciences

Time: 3 Hours	Full Marks : 80
Question 1 is Compulsory. Answer any Two from Question No. 2 to 5 and any Four from Question No. 6	
Q-1) Mark the most correct answer fror	m the following options:- $10x1 = 10$
i) Enzyme present in saliva is: a) Chymotrypsin b) Ptyalin	c) Enteropeptidase d) Isomaltase
ii) Type I Diabetes Mellitus is primar a) Thyroid b) Pituitary	rily a disorder of: c) Pancreas d) Adrenal Medulla
iii) Femoral Artery is the combination a) Internal iliac art b) External iliac art	n of: c) Common iliac art d) Lumbar art
iv) Rothera's Test is done to detect: a) Protein b) Sugar	c) Bile Salt d) Ketone Bodies
<ul> <li>v) All are features of malignancy, except:</li> <li>a) Invasion of basement membrane c) Hyperchromatism</li> <li>b) Metastasis</li> <li>d) Decreased nucleocytoplasmic ratio</li> </ul>	
•	Hepatitis C infection? c) Working in hospital set up d) All of the above
vii) Which of the following antimicro a) Penicillin G b) Cefuroxime	bials may cause nephrotoxicity? c) Gentamicin d) Levofloxacin
viii) Frusemide is a drug used as: a) Hypoglycaemic agent b) Diuretic	c) Antiarrythmic agent d) Muscle relaxant
ix) Liver Function Test includes all, e a) Serum Albumin b) Serum creatinine	except: c) Serum bilirubin d) Serum ALT, AST

x) Waste sharps (needles, syringes, etc.) as biomedical waste in India are

c) Blue

d) Black

disposed of in which colour code?

a) Yellow

b) Red

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### Preliminary Examinations for Diploma in Operation Theatre Technology Course

#### Paper - I Basic Sciences

Answer any Two from Question No. 2 to 5 and any Four from Question No. 6

2x20 = 40

Q2. What do you understand by "Blood Groups"? Mention the names of different blood components commonly used. What problems can arise out of mismatched blood transfusion?

5+5+10 = 20

Q3. What are antibiotics? Name the commonly used antibiotics mentioning their mechanism of action. What is antibiotic resistance?

5+10+5=20

Q4. What is universal precaution? What special measures are to be taken in the O.T. while operating on a HIV positive patient?

8+12 = 20

Q5. What are the modes of spread of cancers? Mention the common sites of spread of Breast Cancer.

12+8 = 20

Q6. Write short notes on (Any Four):-

 $4 \times 7\frac{1}{2} = 30$ 

- a) Anatomy of Biliary Tree
- b) Spinal anaesthesia
- c) Microbiology specimen collection and transport from O.T.
- d) Non-autoclave sterilization procedures for instruments
- e) Muscle Relaxants.

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#### STATE MEDICAL FACULTY OF WEST BENGAL

### Preliminary Examinations for Diploma in Operation Theatre Technology Course

## Paper – II OT Room related matters Common General Surgical Procedures and CPR

Time – 3 hours Full Marks – 80

Question 1 is Compulsory. Answer any Two from Question No. 2 to 5 and any Four from Question No. 6 Q-1) Mark the most correct answer from the following options:- |10x1 = 10|i) Minimum time needed to kill most germs on hands by alcohol-based hand rubs is: a) 3 Secs c) 20 Secs b) 10 Secs d) 60 Secs ii) Periurethral Foley's Catheter insertion is done in all, except: a) Retention of urine c) To measure urine output b) Rupture of urethra d) After prostatectomy iii) Drug used for prophylaxis against DVT: a) Ketamine c) Low molecular weight heparin b) Noradranaline d) Rabeprazole iv) Direct inguinal hernia is commonly seen in: a) Neonates c) Young Adults b) Children d) Elderly men v) Autoclaving is done at a pressure of: a) 15 lbs/Sq.in c) 25 lbs/Sq.in b) 20 lbs/Sq.in d) 30 lbs/Sq.in vi) All of the following diseases need surgical treatment, except: a) Fibroadenoma c) Breast Cancer b) Cystosarcoma Phylloides d) Fibrocystic disease vii) Metallic ornaments have to be removed from body of the patient if one plans to use: a) GA c) Diathermy d) Endosucker b) Harmonic Scalpel viii) Which gas is used to produce pneumoperitoneum? a) Oxygen c) Nitrous Oxide

d) Nitrogen

d) Jejunum

c) Use of thick bore needle

d) Head down position

a) Greater curvature of stomach c) 2<sup>nd</sup> part of duodenum

b) Carbon Dioxide

ix) Commonest site of peptic perforation is:

x) Postspinal headache is common in all, except:

b) 1<sup>st</sup> part of duodenum

a) Multiple punctureb) Head up position

### Preliminary Examinations for Diploma in Operation Theatre Technology Course

# Paper – II OT Room related matters Common General Surgical Procedures and CPR

Answer any Two from Question No. 2 to 5 and any Four from Question No. 6

2x20 = 40

Q2. What is Post-Anaesthesia Care Unit? What are the equipments necessary in a PACU? What are the common complications seen there? How are these complication handled?

5+5+5+5=20

Q3. Mention the various positions of OT table and patient used for general surgical operations.

10+10 = 20

Q4. Describe the indications, materials used and methods used for surgical scrubbing.

4+8+8 = 20

Q5. How do you proceed to prepare O.T. for proposed exploratory laparotomy for abdominal trauma?

20

Q6. Write short notes on (Any Four):-

 $4 \times 7\frac{1}{2} = 30$ 

- a) C.P.R.
- b) Commonly used suture materials
- c) IV cannulation
- d) Insertion of nasogastric tube
- e) Microsoft word.

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