II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN MEDICAL LABORATORY TECHNOLOGY

TIME 3 HRS. MAX. MARKS: 90.

QP CODE — 3101 BIOCHEMISTRY

I Long Essay — answer any TWO

2x10=20

- 1) Describe digestion and absorption of carbohydrates.
- 2) Describe abnormal constituents of urine.
- 3) Describe the liver function tests.

II Write short notes on any TEN

10x5 = 50

- 4) Explain formation of creatinine
- 5) Semi auto analyzer
- 6) Ketone bodies
- 7) Enzyme linked immune sorbent assay (ELISA)
- 8) External quality control
- 9) Constituents of gastric juice
- 10) GTT(Glucose tolerance test)
- 11) Cardiac Profile test
- 12) Urea cycle
- 13) What is Chromatography? Write its applications.
- 14) Glycogenesis
- 15) Recording of patients data

III Write short answers

 $10 \times 2 = 20$

- 16)Rothera's test
- 17) Specific gravity of urine
- 18)Clearance test
- 19) Normal range of electrolytes
- 20) Write two uses of Ion selective electrode (ISE)
- 21)Two applications of electrophoresis
- 22) Name two enzymes of lipid digestion
- 23) Normal range of serum urea & serum creatinine
- 24) Name the lipid profile tests
- 25)Reagent kits

II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN HEALTH INSPECTOR

TIME 3 HRS. MAX. MARKS: 90.

QP CODE — 3111 PAPER I

I. Long Essay - Answer any TWO

 $2 \times 10 = 20$

- 1) Describe epidemiology, clinical features and management of measles. Write a note on its prevention.
- 2) Enumerate mosquito borne diseases. Write in detail on antivector measures.
- 3) Enlist the major non-communicable diseases in India. Write risk factors for Hypertension.

II. Write short notes on any TEN

 $10 \times 5 = 50$

- 4) First Aid in dog bite.
- 5) Revised National Tuberculosis Control Program (RNTCP).
- 6) Sexually transmitted disease.
- 7) Immunisation Schedule.
- 8) Causes of blindness in India.
- 9) Causes and prevention of accidents in industry.
- 10) Iceberg phenomenon of disease.
- 11) Three Tier health care delivery System in health care.
- 12) National Pulse polio Imunisation programme.
- 13) Hazards of obesity.
- 14) Health problems in urban area.
- 15) Primary prevention of diarrhoeal diseases.

III. Write short answers

 $10 \times 2 = 20$

- 16) Exclusive breast feeding.
- 17) Cold chain.
- 18) Anganwadi worker.
- 19) Role play.
- 20) Hazards of smoking.
- 21) Causes of domestic accidents.
- 22) Define epidemiology.
- 23) Functions of family.
- 24) Rehabilitation in Leprosy.
- 25) Composition of Oral Rehydration Solution (ORS).

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II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN MEDICAL X-RAY TECHNOLOGY

TIME 3 HRS. MAX. MARKS: 90.

QP CODE — 3121 RADIOGRAPHY INCLUDING RADIOLOGY PHYSICS (N.S) R-1

I LONG ESSAY- ANSWER ANY TWO

2X10=20

- 1) What are Grids? How they are classified? Discuss in detail structure and mechanism of moving Grids.
- 2) What are radiation hazards? Discuss about radiation protection of patients, general public and technicians.
- 3) Draw a neat labelled diagram of Rotating anode x-ray tube, add a note on Production of x-rays

II. WRITE SHORT NOTES ON ANY TEN

10X5=50

- 4) Photographic effect.
- 5) Latent image.
- 6) Tube rating chart.
- 7) Inverse square law.
- 8) Cathode of X-Ray tube.
- 9) Barium swallow.
- 10) Intravenous Pyelogram (IVP).
- 11) Developer solution.
- 12) Structure of single coated film.
- 13) Dry bench.
- 14) Hangers.
- 15) Digital radiography.

III. WRITE SHORT ANSWERS

10x2=20

- 16) Atom.
- 17) Diode.
- 18) Collimator.
- 19) Beta decay.
- 20) What is Fluoroscopy?
- 21) Barium sulphate.
- 22) Fixer.
- 23) Secondary radiation.
- 24) Radiographic Contrast.
- 25) Dosimeter.

II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN OPERATION THEATER TECHNOLOGY

TIME 3 HRS. MAX. MARKS: 90.

QP CODE — 3131 ANAESTHESIA & ALLIED TOPICS

I. ANSWER ANY TWO

2X10=20

- 1. What are the different preparations of Lignocaine with percentages available and their uses? Write in detail about Bupivacaine.
- 2. Enumerate different types of anaesthesia circuits with diagrams. Describe Bains Circuit.
- 3. Classify Analgesics (Narcotics & Non-narcotics). Write in detail about Fentanyl.

II. WRITE SHORT NOTES ON ANY TEN

10X5=50

- 4. Antiarrhythmics.
- 5. Bronchodilators.
- 6. Muscle relaxants.
- 7. Electrocardiography (ECG)
- 8. Induced Hypothermia.
- 9. Acupuncture Anaesthesia.
- 10. Precautions in managing HIV case.
- 11. Adrenalin.
- 12. Isoflurane
- 13. Pain pathway.
- 14. Balanced Anaesthesia.
- 15. Patient safety program.

III. WRITE SHORT ANSWERS

10X2=20

- 16. Blood components.
- 17. Reversal of patients after General Anaesthesia.
- 18. Cryo-anaesthesia.
- 19. CPR (Cardio-pulmonary Resuscitation).
- 20. Medico legal aspects of Anaesthesia.
- 21. Magills Forceps.
- 22. Sterilization of Instruments.
- 23. Epidural Needle.
- 24. Operation Theater Sterilization.
- 25. Induced Hypotension

II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN MEDICAL RECORDS TECHNOLOGY

TIME 3 HRS. MAX. MARKS: 90.

QP CODE — 3141 MEDICAL TERMINOLOGY

owing.

3x5 = 15

- A. What is the purpose of studying Medical Terminology?
- B. What are the chief sources of Medical Terminology? Give one example for each.
- C. Define word root, combining form and suffixes.
- D. Name the five anatomical divisions of abdomen.
- E. What are the basic rules for building and defining Medical words?

II) Give the Meaning for the following

 $1 \times 5 = 5$

- a) Chlorus
- b) Erythros
- c) Polios
- d) Albus
- e) Niger

III) Write the phobias for the following

1x10=10

- a) Fear of water
- b) Fear of doctor c) Fear of Blood
- d) Fear of Death

- e) Fear of Society
- f) Fear of Self
- g) Fear of Pain
- h) Fear of Vehicle

- i) Fear of Lies
- j) Fear of Dogs

IV) Write the meaning for the following

1x15=15

- 1) ante
- 2) de

9) hand

3) dis

10) tear

4) intra

- 11) bis 12) ecto
- 5) protusion 6) a falling
- 13) dilatation
- 7) rupture
- 14) stabalising
- 8) suture
- 15) hip bone

V) Match the following

1x5 = 5

1. Tri

Two

2. Deca

Eight

3. Unus

Three

4. Duo

Ten

One

5. Octo

One & Half

Q P CODE 3141 MEDICAL TERMINOLOGY

VI) Write the correct m	edical term	1x10 = 10
a) Aspiration of pleu	ral cavity	
b) Removal of ovary		
<u>-</u>	n to the end of the bone	
•	ey for removal of stones	
e) Pain in the joints		
f) Destruction of mu		
g) Hardening of the		
h) Crushing of fetal	•	
i) Inflammation of the	•	
j) Softening of cartil	age	
VII) Differentiate the f	ollowing terms	1x5=5
a) Antiseptic and As	eptic	
b) Corneal and cran	ial	
c) Palpitation and Pa	alpation	
d) Lymphadenitis ar	id Lymphangitis	
e) Ileum and Ilium		
VIII) Define the follow	ing	1x10=10
1. Osteodystrophia		
2. Cholecystitis		
3. Cholangitis		
4. Hysterectomy		
5. Metrophlebitis		
6. Osteoma		
7. Nephrolithotomy		
8, Proctoscopy		
9. Pyelonephritis		
10. trachelorrhaphy		
IX) Define the followin	g	1x5=5
1. Odontology		
2. Dermatologist		
3. Gynaecologist		
4. Gastroenterology		
5. Geraitrics		
X) Expand the following	g abbreviations	1x10=10
1. A.O.D.M	2. U.T.I	
3. K.U.B	4. R.O.M	
5. C.H.D	6. M .D.P	
7. C.P.R	8. S.A.R.S	
9. A.I.O.N	10. L.S.C.S	

II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN

DIALYSIS TECHNOLOGY

TIME 3 HRS.

MAX. MARKS: 90.

QP CODE — 3151 FUNDEMANTALS OF HEMODIALYSIS AND COMPONENTS

I) LONG ESSAYS (ANY TWO)

2X10=20

- 1) Dialysate and delivery system
- 2) Complications during dialysis and their management
- 3) Disinfection of hemodialysis machine

II) WRITE SHORT NOTES (ANY TEN)

10X5=50

- 4) Assesment of adequacy of hemodialysis
- 5) Dialyser resue
- 6) Hemodiafiltration
- 7) Procedure of initiation of dialysis
- 8) Monitors and alarms in hemodialysis
- 9) Anticoagulation
- 10) Bacteriology of hemodialysis
- 11) Sterilization
- 12) Sampling in dialysis patients
- 13) Management of anemia in dialysis
- 14) Catheter related blood stream infection
- 15) Aseptic filling of drains and medication port

III) WRITE SHORT ANSWERS

10X2=20

- 16) Types of cannulation
- 17) Types of erythropiotin
- 18) Two indications to start dialysis
- 19) Name two antihypertensives
- 20) Normal calcium and phosphorous levels
- 21) Two causes of chronic kidney disease
- 22) Define conductivity and normal value
- 23) Two causes of chills in dialysis
- 24) Tyes of arterio-venous a-v cannulation
- 25) Two causes of muscle cramps

II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN OPHTHALMIC TECHNOLOGY

TIME 3 HRS. MAX. MARKS: 90.

QP CODE — 3161 PAPER I

Your answers should be specific to the questions asked Draw neat labeled diagrams wherever necessary

1. LONG ESSAYS (Answer any two)

 $2 \times 10 = 20$

- 1. Retinoscopy definition, stages, procedure and prescription.
- 2. Disinfection of operating theatre .
- 3. Explain in brief of all steps of cataract surgery.

2. SHORT ESSAYS.(Answer any ten)

 $10 \times 5 = 50$

- 4. Importance of consent before any intervention inn ophthalmology.
- 5. Mention some anamolies of lid position. And features of entropion.
- 6. Classification of squint and how to diagnose squint.
- 7. Autoclave.
- 8. Trichiasis and its management.
- 9. Straddling method in retinoscopy
- 10. Slit lamp parts and uses.
- 11. Procedure of schiotz tonometer.
- 12. Name all instruments used for cataract surgery.
- 13. Preliminary work up before trabeculectomy.
- 14. Different modes of administration of drugs in ophthalmology.
- 15. Failed DCR (dacryocystectomy).

3. WRITE SHORT ANSWERS.

 $10 \times 2 = 20$

- 16. Indications of MMC(mitomycine-C) in pterygeum surgery .
- 17. Focimeter.
- 18. What is RAPD and how to check RAPD.
- 19. Indications of enucleation.
- 20. Advantages of fundus examination with 90D over ophthalmoscope.
- 21. Indications for pterygium surgery.
- 22. Name various tonometers.
- 23. Types of keratometer.
- 24. Placido disc
- 25. Name convergence anomalies

II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN DENTAL MECHANICS

TIME 1.1/2 HRS.

MAX. MARKS: 45.

QP CODE — 3171 COMPLETE DENTURES

I. LONG ESSAY

1 X 10 = 10

1) Describe in detail the principles of teeth arrangement

II. WRITE SHORT NOTES

5 X 5 = 25

- 2) Compensatory curve
- 3) Fabrication of special tray
- 4) Cast preparation and trimming
- 5) Protrusive balance
- 6) Compression moulding technique

III. WRITE SHORT ANSWERS

5 X 2 = 10

- 7) Beading and Boxing
- 8) Ceramic teeth
- 9) Curing cycle
- 10) Rebasing
- 11) Splints

II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN DENTAL HYGIENE

TIME 1.1/2 HRS.

MAX. MARKS: 45.

QP CODE — 3181 DENTAL HYGIENE & ORAL PROPHYLAXIS

1.LONG ESSAY 1X10=10

1. Define and classify calculus. Describe various modes of attachment of calculus to tooth surface.

II. WRITE SHORT NOTES

5X5=25

- 2. Stages of dental plaque formation
- 3. Dental stains
- 4. Clinical features of chronic periodontitis
- 5. Periodontal abscess
- 6. Objectives of dental hygiene

III. WRITE SHORT ANSWERS

5x 2=10

- 7. Ultrasonic scalers
- 8. Topical fluoride application
- 9. Dental floss
- 10. Periodontal pocket
- 11. Oral cancer

CERTIFICATE COURSE

TIME 1.1/2 HRS.

MAX. MARKS: 45.

QP CODE — 1101 PHYSICS

I. LONG ESSAY- ANSWER ANY ONE

10X1=10

- 1) State Newton's laws of motion. Explain law of conservation of energy.
- 2) What is PN junction? Explain p-type and n-type semiconductor.

II WRITE SHORT NOTES ON ANY FIVE

5X5=25

- 3) Work
- 4) Lens
- 5) sound
- 6) Electromagnectic induction
- 7) Radioactivity
- 8) Current
- 9) Coulomb's law

III. WRITE SHORT ANSWER

5X2=10

- 10) Reflection of light
- 11) Viscosity
- 12) Photoelectric effect
- 13) Fundamental unit
- 14) Velocity

SUPPLEMENTARY EXAMINATION MARCH – 2017 I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN MEDICAL LABORATORY TECHNOLOGY

TIME 3 HRS.

MAX. MARKS: 90.

QP CODE — 2101

SECTION - A ANATOMY (WRITE IN SEPARATE ANSWER BOOK)

I. LONG ESSAY — ANSWER ANY ONE

 $1 \times 10 = 10$

- 1)Name the parts of Excretory system.-2.Write in detail abpout Kidney
- a)Coverings b)Surfaces c)Borders d)Relations e) Blood supply 1+1+1+3+1
- 2)Describe the surfaces and borders of Heart.Write in detail about Right Atrium

II. Write Short Essays Any 5

 $5 \times 5 = 25$

- 3) Right Lung
- 4) Histology of Hyaline cartilage
- 5)Supra renal gland
- 6)Large Intestine
- 7)Uterus
- 8) Gluteus maximus
- 9)Radial artery

III. Write Short Answers

 $5 \times 2 = 10$

- 10) Name the Tarsal bones 11) Name 3 Salivary glands
- 12) Name 4 long bones 13 Name 4 muscles of Arm
- 14) Name 4 lymphoid tissue in the body

QP CODE - 2102

Section- B, PHYSIOLOGY(Write in separate answer book)

I. Long Essay — Answer any ONE

1 x 10=10

- 1) Describe the morphology and functions of white blood corpuscles.(5+5)
- 2) Draw a labeled diagram of Nephron. Describe the functions of the different parts of nephron. .(5+5)

II. Write short notes on any FIVE

 $5 \times 5 = 25$

- 3) Composition and functions of saliva.
- 4) Name posterior pituitary hormones . Explain their actions.
- 5) Describe the transport of carbon dioxide in the blood.
- 6) Draw a neat labeled diagram of E.C.G.
- 7) Refractory errors of Eye.
- 8) Cerebrospinal Fluid.

III. Write short answers

5 x 2=10

- 9) Name any two lung volumes.
- 10) Name any two contraceptive methods in males.
- 11) Write the normal values of a) pulse rate b) blood pressure
- 12) Name any two functions of skin.
- 13) Name any two types of anaemia.

SUPPLEMENTARY EXAMINATION MARCH – 2017 I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN MEDICAL X-RAY TECHNOLOGY

TIME 1.1/2 HRS.

MAX. MARKS: 45.

QP CODE — 2121 GENERAL PHYSICS

I LONG ESSAY- ANSWER ANY ONE

1X10=10

- 1) What is Atom? Explain Structure of atom with neat labelled diagram.
- 2) What is Anode? What are the types of anode? Discuss about Rotating anode with neat diagram.

II. WRITE SHORT NOTES ON ANY FIVE

5X5=25

- 3) Properties of X-Rays.
- 4) Rectification.
- 5) Tube rating chart.
- 6) Differentiate between Conductors and insulators.
- 7) Space charge.
- 8) Transformer.

III. WRITE SHORT ANSWERS

5x2=10

- 9) Inverse square law.
- 10) Triode.
- 11) Kilovoltage peak (KVP).
- 12) Potential difference.
- 13) What is fluroscence.

SUPPLEMENTARY EXAMINATION MARCH – 2017 I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN OPERATION THEATRE TECHNOLOGY

TIME 3 HRS. MAX. MARKS: 90.

QP CODE — 2131 FUNDAMENTALS OF OT & BASIC CONCEPTS IN SURGERY

I LONG ESSAY- ANSWER ANY TWO

2X10 = 20

- 1. Explain the action of Xylocaine in spinal anaesthesia. Write in detail about administering spinal anaesthesia.
- 2. What are the various methods of sterilisation & discuss in detail about autoclaving.
- 3. Describe the role of OT technicians in Day care surgery

II WRITE SHORT NOTES ON ANY TEN

10 X5 = 50

- 4. Harmonic scalpel
- 5. ambulatory surgery
- 6. Vacuum suction
- 7. Central sterile supply department (CSSD)
- 8. Electrocautery
- 9. Informed consent
- 10. Specimen preservation
- 11. Doctor- patient relationship
- 12. Laparoscopic surgery
- 13. Osteomyelitis
- 14. Wound infection
- 15. Nutrition in postoperative patient

III WRITE SHORT ANSWERS

10 X2 = 20

- 16. Bioburden
- 17. Draping
- 18. Tubectomy
- 19. Ring block
- 20. Tracheostomy
- 21. Non-absorbable suture materials
- 22. Dimensions of OT tables
- 23. Humby's knife
- 24. Ryle's tube
- 25. Lithotomy position

SUPPLEMENTARY EXAMINATION MARCH – 2017 I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN Medical Records Technology

TIME 3 HRS.

MAX. MARKS: 90.

QP CODE — 2141 MEDICAL RECORD SCIENCE (MRS)

I. LONG ESSAY — ANSWER ANY TWO.

 $2 \times 10 = 20$

- 1) Write in detail about the Organisation and Management of Medical Records Department?
- 2) Name the different types of registers maintained in Medical Records Department with specifications?
- 3) Define Warrant? Explain the different types of Search Warrants?

II. WRITE SHORT NOTES ON ANY TEN.

 $10 \times 5 = 50$

- 4) Explain the Filing rules & Procedure
- 5) Write in brief about the functions of Medical Records Department?
- 6) Retention period of Medical Record?
- 7) Discuss about the Advantages & Disadvantages of Serial Numbering System?
- 8) Write about the five objectives of Form Control Programme?
- 9) Cognizable and Non- Cognizable offence?
- 10) Movable and Non movable properties?
- 11) What is the procedure followed in case of arrest without warrant by Police Officer?
- 12) Production of Document?
- 13) What are the contents of the Birth and Death Register?
- 14) Write in detail about the procedure to follow for preparing summons record for court?
- 15) Define characteristic of good Medical Records?

III. WRITE SHORT ANSWERS.

10 X 2 = 20

- 16) Out Patient Department (OPD)
- 17) Disease Index Card
- 18) Discharge Summary
- 19) Post Mortem
- 20) Return of Document
- 21) Government Pleader
- 22) Public Servant
- 23) Alpha Index Card
- 24) Internal Audit
- 25) Tracer Card

SUPPLEMENTARY EXAMINATION MARCH - 2017

I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN DIALYSIS TECHNOLOGY

TIME 3 HRS. MAX. MARKS: 90.

QP CODE — 2151

SECTION - A PHARMACOLOGY (WRITE IN SEPARATE ANSWER BOOK)

I. LONG ESSAY — ANSWER ANY ONE

 $1 \times 10 = 10$

- 1. Name the Hormones secreted by Pituitary gland. Write briefly on Oxytocin.
- 2. Classify Antibiotics based on their Mechanism of Action. Write 2 indications and 2 adverse effects of Tetracycline.

II WRITE SHORT NOTES ON ANY FIVE

5X5=25

- DPT Vaccine.
 Pantoprazole.
 Pantoprazole.
 Marfarin.
- 7. Local Anaesthetic agents. 8.Sub Cutaneous route of administration.
- 9. Insulin Preparations. 10. Vitamin C.

III. WRITE SHORT ANSWERS

5 X 2 = 10

- 11. Phenol. 12. Name 2 tranquilizers.
- 13. Name 2 chelating agents. 14. Name 2 Analgesics.
- 15. Name 2 De-worming agents.

QP CODE — 2152

SECTION - B THEORY OF DIALYSIS (WRITE IN SEPARATE ANSWER BOOK)

I) LONG ESSAYS-ANSWER ANY ONE

1X10=10

- 1) Anti coagulation Methods in Hemodailysis
- 2) Monitoring of patients in Hemo dialysis

II) SHORT NOTES ON ANY FIVE

5X5=25

- 3) Write about water treatment plant.
- 4) Anatomy and physiology of artificial kidney
- 5) Central venous catheter complication
- 6) Washing of accessories in hemodiaylysis
- 7) Dry weight and its importance
- 8) Alarms and its importance

III) WRITE SHORT ANSWERS (any five)

5X2=10

- 9) Intradialytic hypertension
- 10) Two types of dialysers

11) Dialysis access

- 12) Normal albumin and creatitine levels
- 13) Normal body water distributon
- 14)Two complications of central venous catheters .

I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN OPHTHALMIC TECHNOLOGY

TIME 3 HRS. MAX. MARKS: 90.

QP CODE — 2161 PAPER I

Your answers should be specific to the questions asked Draw neat labeled diagrams wherever necessary

I. Long Essay (Answer any two)

2 X 10 = 20

- 1. Aqueous humour production and drainage with diagram.
- 2. Retinoscopy prerequisites and procedure.
- 3. Describe visual pathway with neat diagram

II. SHORT ESSAYS.

 $10 \times 5 = 50$

- 4. Define visual acuity and what is the meaning of 6/60 in snellen's visual acuity chart.
- 5. Procedure of estimating visual field.
- 6. Explain the technique to find power and axis of cylinder.
- 7. Methods of measurements of inter pupillary distance.
- 8. Types of bifocal spectacles and advantage of executive bifocal.
- 9. Duochrome test.
- 10. Write a short notes on care and maintainence of contact lenses.
- 11. Treatment options for aphakia.
- 12. Structures forming anterior chamber angle.
- 13. Spectacles
- 14. Anisometropia
- 15. Decentring of iols

III. WRITE SHORT ANSWERS

10X2 = 20

- 16. Types of spectacles frame structure.
- 17. Problems during retinoscopy.
- 18. Difference between convex and concave lenses.
- 19. Name the tests used to check binocular single vision.
- 20. Two Laws of ocular motility.
- 21. Tests for colour vision.
- 22. Pilocarpine
- 23. Worth four dot test.
- 24. Materials used for spectacles.
- 25. Mannitol.

I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN DENTAL MECHANICS

TIME 1. 1/2 HRS.

MAX. MARKS: 45.

QP CODE — 2171 PAPER I

I. LONG ESSAY - ANSWER ANY ONE

 $1 \times 10 = 10$

- 1) Classify dental cements. Write the composition, setting reaction and uses of Glass ionomer cement.
- 2) Classify gypsum products and describe in detail about type II gypsum product.

II. WRITE SHORT NOTES ON ANY FIVE

5 X 5 25

- 3) Tarnish and Corrosion
- 4) Denture base resins
- 5) Duplicating materials
- 6) Gypsum bonded investment
- 7) Tray materials
- 8) Types and uses of flux
- 9) Base metal alloys

III. WRITE SIIORT ANSWERS

5 X 2 = 10

- 10) Electroplating
- 11) Impression compound
- 12) Niti wires
- 13) Divestment
- 14) Soldering

I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN DENTAL HYGIENE

TIME 1. 1/2 HRS.

MAX. MARKS: 45.

QP CODE — 2181 ANATOMY (WRITE IN SEPARATE ANSWER BOOK)

I Long essays (any 1)

1x9 = 9

- 1. Describe temporomandibular joint
- 2. Describe facial nerve

II Short essays (any 2)

2X5 = 10

- 3. Palatine tonsil
- 4. Parotid gland
- 5. Draw a labeled diagram of tooth

III Short answers

3x2=6

- 6. Give the sensory nerve supply of tongue
- 7. Name the muscles of mastication
- 8. What are the parts of mandible bone?

Q.P.CODE-2182

PHYSIOLOGY (WRITE IN SEPARATE ANSWER BOOK)

I. Write short notes on any five

4 X 4=16

- 1. Functions of middle ear.
- 2. Composition and function of gastric juice.
- 3. Draw a neat labeled diagram of a cell.
- 4. Hypoxia
- 5. Composition and function of blood
- 6. Functions of thyroid hormones.

II. Write short answers

2 X 2=4

- 7. Name two bile salts.
- 8 .Normal values of BP and pulse

I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN PHYSIOTHERAPY

TIME 3 HRS. MAX. MARKS: 90.

QP CODE - 2191

I. Long essays (any 2)

2x10=20

- 1. Name the parts of nervous system. Describe cerebrum
- 2. Name parts of gastrointestinal tract. Describe stomach
- 3. Name parts of male reproductive system. Describe testis

II. Short essays (any 10)

10x5=50

- 4. Gall bladder
- 5. Transverse section of compact bone
- 6. Right lung
- 7. Adrenal gland
- 8. Right kidney
- 9. Elastic cartilage
- 10. Coronary arteries
- 11. Trachea
- 12. Transitional epithelium
- 13. Appendix
- 14. Uterus
- 15. Meninges of brain

III. Short answers:

10x2 = 20

- 16. Name parts of Fallopian tube
- 17. Name appendages of skin
- 18. Name 4 bones of upper limb
- 19. Name 2 muscles of thigh
- 20. Name 2 muscles of abdomen
- 21. Name 4 endocrine glands
- 22. Name the components of connective tissue
- 23. What are the bones forming shoulder joint
- 24. Name 2 branches of aorta
- 25. Mention 2 differences between skeletal and smooth muscle

SUPPLEMENTARY EXAMINATION MARCH - 2017

II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN Medical Laboratory Technology

QP CODE - 3102 Subject: Pathology

Time: 3 Hours Max. Marks: 90

I. Long Essay: (Answer any two)

2x10=20

- 1. Discuss Major and minor crossmatching. Add note on coob's crossmatching.
- 2. Discuss in detail about semen analysis. Write normal values & terminologies used in semen analysis.
- 3. Name different sites of bone marrow aspiration, prepation of bone marrow aspirate and procedure of staining of bone marrow smears

II. Short Essay: (Answer any ten)

10x5=50

- 4 Direct Coomb's test
- 5 Activated partial Thromboplastin time
- 6 Sputum examination
- 7 Blood grouping
- 8. Steps in Tissue processing. Add note on clearing
- 9 Donor screening & selection in blood bank
- 10 Triple blood bag
- 11 What is Hematoxylin? Mention the types of Hematoxylin.
- 12 Periodic acid Schiff stain
- 13 How do you prepare paraffin block
- 14 Transfusion reactions
- 15 Sickling test
- 16 Osmotic fragility test
- 17 Physical examination of CSF

III. Short Answer:

10x2 = 20

- 18 Methods of bleeding time estimation
- 19 Preparation of packed cells in blood bank
- 20 What is differentiation & blueing
- 21 Name 2 uses of frozen section
- 22 Name different types of Hematoxylin
- 23 Name 4 special stains in histopathology
- 24 Name different mounting media.
- 25 Rapid H&E staining

SUPPLEMENTARY EXAMINATION MARCH - 2017

II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN HEALTH INSPECTOR

QP CODE — 3112 Subject: Paper II

Time 3 Hrs. Marks:90

I. Long Essay — Answer any TWO

2x10=20.

- 1) What are the causes of High Infant mortality? Write the services included in the Child survival and safe motherhood programme.
- 2) Define Health education? Write different methods of Health education.
- 3) What is a balanced diet? Write the components of balanced diet.

II.Write Short notes on any TEN.

10x5=50.

- 4) Contraindications of Oral contraceptive pills.
- 5) Personnel hygiene.
- 6) Write the different modes of transmission of diseases.
- 7) Secondary prevention with modes of intervention.
- 8) Mid day meal programme.
- 9) Scabies.
- 10) Anopheles mosquitoe.
- 11) Prevention of food adulteration act .
- 12) Chlorination of water.
- 13) Contraindications for contraceptive pills.
- 14) Under five clinics.
- 15) Two way method of health education.

II. Write Short Answers.

10x2 = 20

- 16) Primary case.
- 17) Iron and folic acid tablets.
- 18) Food fortification.
- 19) UNICEF.
- 20) Septic tank.
- 21) Diseases spread by House fly.
- 22) Components of Cold Chain.
- 23) ASHA.
- 24) Risk factors of Hypertension.
- 25) Types of ventilation.

SUPPLEMENTARY EXAMINATION MARCH - 2017

II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN Medical X-Ray Technology QP CODE — 3122

Subject: RADIOGRAPHY INCLUDING MEDICAL RECORDS R — II
Time: 3 hrs Max. Marks: 90

I. LONG ESSAY — ANSWER ANY TWO

 $2 \times 10 = 20$

- 1) What is Barium meal? Discuss in detail about procedure and complications of barium meal.
- 2) What is Urethrography? Discuss about procedure and complications of ascending urethrography (ASU).
- 3) What is Digital Radiography? Add a note on mechanism and advantages over Computed radiography (*CR*).

II WRITE SHORT NOTES ON ANY TEN

 $10 \times 5 = 50$

- 4) Barium enema.
- 5) Axial view of Knee.
- 6) Chest lateral decubitus view.
- 7) Oral contrast agents.
- 8) Differentiate between Computed tomography (CT) & Magnetic resonance imaging (MRI).
- 9) Mastoid view.
- 10) Radiation protection.
- 11) X-Ray Films.
- 12) Half life.
- 13) Cystogram.
- 14) C T Cisternography.
- 15) Dark room entrance.

III. WRITE SHORT ANSWERS

 $10 \times 2 = 20$

- 16) Film fog.
- 17) Film loading.
- 18) Mastoid cylinder.
- 19) Urograffin
- 20) What is Compton Effect?
- 21) Dosimeter.
- 22) Wet bench.
- 23) Ohms law.
- 24) Scout film.
- 25) Carpal bones.

SUPPLEMENTARY EXAMINATION MARCH - 2017

II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN OT Technology QP CODE - 3132 OPERATIVE PROCEDURE

Time 3 Hrs. Max. Marks: 90.

I LONG ESSAY- ANSWER ANY TWO

2x10=20

- 1. Describe the short term and long term management of burns patient.
- 2. Describe incisions in laparotomy. Discuss in detail about emergency laparotomy.
- 3. Discuss about the post-operative complications. Add a note on complications after thyroidectomy.

II. WRITE SHORT NOTES ON ANY TEN

10x5=50

- 4. Appendicectomy
- 5. Below knee amputation
- 6. Intramedullary nail fixation of fractures
- 7. Lower segment caesarean section (LSCS)
- 8. Tonsillectomy
- 9. Psychological support for breast surgery patients
- 10. Bronchoscopy procedure
- 11. Intercostal drainage (ICD)
- 12. Foley's catheterisation and its complications
- 13. Advantages of laparoscopic surgeries
- 14. Enumerate the common causes of Haematemesis
- 15. Emergency procedure for head injuries

III WRITE SHORT ANSWERS

10 X2=20

- 16. Hand washing technique
- 17. Radiotherapy
- 18. Cast application
- 19. Splenectomy complications
- 20. Angiogram
- 21. Haemorrhoidectomy
- 22. Cardio-pulmonary resuscitation (CPR)
- 23. Endoscopy
- 24. Cryosurgery
- 25. Renal transplantation

SUPPLEMENTARY EXAMINATION MARCH - 2017

II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN

Medical Record Technology Hospital Administration QP CODE — 3142

Time: 3 Hours. Max. Marks:90.

I. Long Essays.

2x10=20

- 1) Classify hospital waste. Discuss the health hazard of the hospital waste.
- 2) Define Management. Describe four major functions of Management in an organization.
- 3) Describe the organization and function of Medical college hospital.

II. Write briefly on any TEN

10x5 = 50

- 4) History of hospitals.
- 5) Enumerate various committees of hospital.
- 6) Hospital infection control committee.
- 7) Emergency service department.
- 8) Define planning. Classify plans.
- 9) Dietary department.
- 10) Doctor patient relationship.
- 11) Disaster cycle.
- 12) Health insurance.
- 13) Briefly describe organization of outpatient department.
- 14) Describe the role of medical record department in teaching hospital.
- 15) Corporate hospitals.

III. Write Short Answers

10x2 = 20

- 16) Ambulance services.
- 17) Deep burial pit.
- 18) Resources.
- 19) Characteristics of hospital administrator.
- 20) Diagnostic services.
- 21) Procedure adopted in appointing an officer.
- 22) Ways of communication.
- 23) Delegation of power.
- 24) Quality control.
- 25) Under five clinics.

SUPPLEMENTARY EXAMINATION MARCH - 2017

II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN DIALYSIS TECHNOLOGY

Renal Replacement Therapy Other Than Haemodialysis & Patient Teaching QP CODE - 3152

Time: 3 hrs Max. Marks: 90

I. LONG ESSAYS - ANSWER ANY TWO

 $2 \times 10 = 20$

- 1) Continous renal replacement therapy—discuss in detail
- 2) Peritonitis and its management
- 3) Maintaienece of records and individual log book

II. WRITE SHORT NOTES ON ANY TEN

 $10 \times 5 = 50$

- 4) Hemoadsorption
- 5) Therapeutic aphersis
- 6) Compostion of dailysis team and their duties
- 7) Immunisation in Hemodialysis (HD) patients
- 8) Anatomy of peritoneum
- 9) Slow continous ultrafiltration
- 10) Psycological complications in dialysis patients
- 11) Pet test
- 12) Anticoagation
- 13) Newer Peritoneal Dialysis (PD) Solutions
- 14) Repacement fluid in plasmapheresis
- 15) Hemodiafiltration

III. WRITE SHORT ANSWERS

 $10 \times 2 = 20$

- 16) Two organisms causing peritonitis
- 17) Expand CAPD and CCPD
- 18) Name two antifungals
- 19) Two causes of Cloudy peritoneal fluid
- 20) Name two antihypertensive
- 21) Two endogenous poisons
- 22) Two agents used in disinfection
- 23) Two types Peritoneal Dialysis (PD) catheters
- 24) Tidal Peritoneal Dialysis (PD)
- 25) Exit site infection

SUPPLEMENTARY EXAMINATION MARCH - 2017

II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN Ophthalmic Technology PAPER —11 OP CODE-3162

Time: 3hrs Max.Marks:90

I. Long essay — Answer any Two.

 $2 \times 10 = 20$

- 1. What is Keratoplasty? What are the indications for Keratoplasty? How are the donor corneas collected and preserved?
- 2. What is legal blindness? Name the causes of preventable blindness. Write briefly about vision20/20.
- 3. What are the causes of childhood blindness? How does school screening help in preventing childhood blindness. How is the school screening program organised?

II. Write short notes on any TEN.

 $10 \times 5 = 50$

- 4. Consent format for cataract surgery.
- 5. How can you spread the awareness for eye donation.
- 6. How can you rehabilitate the blind?
- 7. What is demography? Write its importance.
- 8. How are chemical injuries caused? Write the treatment.
- 9. How will you organize an eye camp.
- 10. Name some ophthalmic emergencies. What first aid would you give for a penetrating eye injury.
- 11. Surgical records.
- 12. Write the importance of eye health education.
- 13. Disease index.
- 14. Post-op counselling of cataract patient.
- 15. What is the role of survey of eye diseases in community ophthalmology?

III. Write short answers

 $10 \times 2 = 20$

- 16. What are the causes of treatable blindness?
- 17. Eye health education in diabetics.
- 18. What is a target group?
- 19. Why is eye donation important?
- 20. Name the conditions that can be screened in a school screening program.
- 21. What is Cardiopulmonary resuscitation (CPR)? When is it done?
- 22. Name some ophthalmic emergencies.
- 23. Low vision assessment (LVA).
- 24. National Programme for Control of Blindness (NPCB).
- 25. What is epidemiology?

SUPPLEMENTARY EXAMINATION MARCH - 2017 II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN

DENTAL MECHANICS PARTIAL DENTURES, ORTHODONTIA, MAXIOFACIAL PROSTHESIS QP CODE - 3172

Time: 1 '1/2 hrs Max. Marks: 45

I. LONG ESSAY

 $1 \times 10 = 10$

1) Define Pontic. What are different types of pontic and discuss the principles of pantie design.

II WRITE SHORT NOTES

5 X 5=25

- 2) Mention different die systems
- 3) Parts of a surveyor
- 4) Major connectors
- 5) Adams clasp
- 6) Duplicating materials

III. WRITE SHORT ANSWERS

5 X2 = 10

- 7) Hawley's Appliance
- 8) Materials used in maxillofacial prosthesis
- 9) Gingivally approaching clasp
- 10) Refractory cast
- 11) Shaped blockout

SUPPLEMENTARY EXAMINATION MARCH - 2017

II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN DENTAL HYGIENE

DENTAL HEALTH EDUCATION, SOCIAL & PUBLIC HEALTH & PREVENTIVE DENTISTRY QP CODE - 3182

Time: 1 '1/2 hrs Max Marks: 45

I. Long essay

1 x10=10

1. Describe the prevalance and prevention of periodontal diseases

II. Write short notes

5x5 = 25

- 2. Oral hygiene habits
- 3. Habits and effect on dental structures
- 4. Child and parent counselling.
- 5. Dental health education
- 6. Implication of community water supply on dental health

III. Write short answers

2x5 = 10

- 7. Interdental aids
- 8. Prevention of dental caries
- 9. Dentifrice
- 10. Environmental health
- 11. Oral health in handicapped.

SUPPLEMENTARY EXAMINATION MARCH - 2017

CERTIFICATE COURSE CHEMISTRY QP CODE 1102

Time: 1. ½ hrs Max. Marks: 45

I. LONG ESSAY-ANSWER ANY ONE

 $1 \times 10 = 10$

- 1) What is natural radioactivity and applications of radioisotopes?
- 2) Explain the Watson & Crick model for structure of DNA.

II. WRITE SHORT NOTES ON ANY FIVE

5x5 = 25

- 3) Radioactive dating.
- 4) Buffer solution and types of buffer solution.
- 5) Tyndal effect.
- 6) Manufacture of Methane.
- 7) Purines and Pyrimidines.
- 8) Acid and Bases.
- 9) Functional properties of enzymes and antibodies.

III. WRITE SHORT ANSWERS

 $5 \times 2 = 10$

- 10) Half life period.
- 11) Uses of Iodine.
- 12) Types of RNA.
- 13) Why methane is called as Marsh gas.
- 14) Molasses.

SUPPLEMENTARY EXAMINATION MARCH - 2017

I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN MEDICAL LABORATORY TECHNOLOGY

TIME 3 HRS. MAX. MARKS: 90.

QP CODE — 2103 **Subject: Biochemistry**

I LONG ESSAY- ANSWER ANY TWO

10 X 2=20

- 1. Classify Carbohydrates with suitable examples. Add a note on properties of glucose.
- 2. Explain the factors affecting enzyme activity.
- 3. Explain the principle, components, procedure and uses of semi automated Biochemistry analyzer.

II. WRITE SHORT NOTES ON ANY TEN

10 x 5=50

- 4. Blood Gas analyzer
- 5. Atomic weight & molecular weight
- 6. Polysaccharides
- 7. Arrangements of Chemicals & Glasswares in Biochemistry lab
- 8. Isoenzymes
- 9. Acid-base Titration
- 10. Dry Chemistry analyzer
- 11. Single Pan balance
- 12. Colorimeter
- 13. Water bath & its uses
- 14. Diagnostic enzyme markers for Myocardial infarction
- 15. Functions of calcium

III WRITE SHORT ANSWERS

10X2=20

- 16. Benedict's test
- 17. Difference between serum & plasma
- 18. Essential fatty acids
- 19. Micro pipettes
- 20. Uses of Red & Blue litmus paper
- 21. Define acid & base with examples
- 22. Sucrose & lactose
- 23. Biuret test
- 24. Primary standards
- 25. Essential amino acids

SUPPLEMENTARY EXAMINATION MARCH - 2017

I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN HEALTH INSPECTOR

QP CODE — 2111 SUBJECT: PAPER I

Time 3 Hrs. Max. Marks: 90.

I. Long Essay — Answer any TWO

2x10=20.

- 1) Describe Natural History of a disease, with suitable example.
- 2) Enumerate various portions of digestive system. Describe the structure and functions of stomach.
- 3) Describe role of Cultural factors in health and disease.

II. Short notes on any TEN.

10x5=50.

- 4) Break point chlorination.
- 5) Incidence and Prevalence.
- 6) Integrated Vector control.
- 7) Human Development Index.
- 8) Hormones.
- 9) Anthropometry.
- 10) Iceberg phenomenon of disease.
- 11) Consumer protection act.
- 12) Functions of Blood.
- 13) Ill- effects of alcoholism in the family.
- 14) Socio-economic status.
- 15) Medico social worker.

III. Write Short Answers.

10x2=20.

- 16) Positive health.
- 17) Pandemic.
- 18) Drug addiction.
- 19) Right atrium.
- 20) Social institutions.
- 21) Culture contact.
- 22) Disease eradication.
- 23) Juvenile Delinquency.
- 24) Role of family in society.
- 25) Any three functions of lung.

SUPPLEMENTARY EXAMINATION MARCH - 2017

I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN MEDICAL X-RAY TECHNOLOGY

QP CODE — 2122 SUBJECT: ANATOMY

TIME: 1. ½ HRS MAX MARKS: 45

I Long Essay – answer any two

2x10=20

- 1) Mention the surfaces and borders of Heart.Write in detail about Right Atrium
- 2) Mention the parts of Gastro intestinal system. Write in detail about Liver
- 3) Mention the parts of Female Reproductive System . Write in detail about Uterus

II Short Notes - answer any three

3x5 = 15

- 4) Supra renal gland
- 5) Right Lung
- 6) Histology of Bone
- 7) Urinary bladder

III Short answers

5x2=10

- 8) Name 4 Cranial nerves
- 9) Name 4 Tarsal bones
- 10) Name 4 Muscles of upper limb
- 11) Name 4 Nerves of Lower lib
- 12) Name 4 Bones of face

SUPPLEMENTARY EXAMINATION MARCH - 2017

I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN OT TECHNOLOGY

TIME 3 HRS. MAX. MARKS: 90. SECTION – A, BIOCHEMISTRY (write in separate answer book) QP CODE — 2132

LONG ESSAY- ANSWER ANY ONE

1x10=10

- 1. Describe the normal physical characteristics & Chemical composition of urine & their significance
- 2. Describe the formation of urea. Add a note on blood levels & urine levels of urea.

II. WRITE SHORT NOTES ON ANY TWO

2x5=10

- 3. Acid base Balance.
- 4. Tests for detection of sugar & protein in urine
- 5. Creatinine clearance test

III. WRITE SHORT ANSWERS

5X2=10

- 6. Serum Electrolyte levels
- 7. Normal Fasting & Post Prandial blood glucose levels
- 8. Metabolic acidosis
- 9. Ionization theory
- 10. Formation of Creatinine

SECTION - B, PHARMACOLOGY (Write in separate answer book) QP CODE - 2133

I. ANSWER ANY ONE

 $1 \times 10 = 10$

- 1) Name any Six commonly used analgesics. Write the therapeutic uses, adverse effects and contraindications of Morphine.
- 2) Name any six commonly used Penicillins. Write the mechanism of action, uses and adverse effects of Penicillins.

II. WRITE SHORT NOTES OF ANY TWO

 $2 \times 5 = 10$

- 3) Atropine
- 4) Oral route of drug administration
- 5) Skeletal muscle relaxants

III. WRITE SHORT ANSWERS

 $5 \times 2 = 10$

- 6) Write two drugs used in Tuberculosis.
- 7) Name two antiseptics
- 8) Write two uses of sulfonamides
- 9) Name two Inhalational anaesthetics
- 10) What is drug antagonism?

SECTION - C, MICROBIOLOGY (Write in separate answer book) QP CODE - 2134

Answer any one

1X10=10

- 1. Define and classify immunity. Write about innate immunity.
- 2. Define sterilization. Write in detail about moist heat sterilization.

II. Write short notes on any two

2X5=10

- 3. Normal flora of upper respiratory tract.
- 4. Bacterial flagella.
- 5. Robert Koch.

III. Write short answers

5X2=10

- 6. Name two chemicals used for disinfection.
- 7. Name two vaccines.
- 8. Colour codes for waste segregation and disposal.
- 9. Name two organisms causing diarrhoea.
- 10. Name two hospital acquired infections.

SUPPLEMENTARY EXAMINATION MARCH - 2017

I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN

MEDICAL RECORD TECHNOLOGY TIME 3 HRS. MAX. MARKS: 90. SECTION - A Anatomy (Write in separate answer book) QP CODE - 2142 Long Essay - answer any one 1x10=101) Mention the parts of Excretory system in detail 2) Classify joints and give examples for each II. **Short Notes – answer any two** 2x5=103) Liver 4) Uterus 5) Histology of Cardiac muscle III. **Short answers** 5x2=106) Nucleus 7) Parts of Large intestine 8) Name 4 Synovial joints 9) Name 3 endocrine glands 10) Name 3 cartilages of Larynx Section B — Physiology (Write in separate answer book) Q-P code -2143 Write short notes on any four 4x5 = 201. Functions of Kidney. 2. Composition and function of gastric juice. 3. Draw a neat labeled diagram of cell. 4. Draw a neat labeled diagram of normal ECG. 5. Blood transfusion 6. Functions of thyroid hormones. II. Write short answers 5x2=107. ESR in males and females 8. Normal values of hemoglobin and White Blood Cells (WBC) count 9. Name two lung volumes. 10. Name two functions of Cerebro Spinal Fluid (CSF). 11. Menarche and menopause. SECTION -C, PATHOLOGY& MICROBIOLOGY (Write in separate answer book) 2144 I. Long Essay (Answer any one) $1 \times 10 = 10$ 1. Define inflammation. Signs of inflammation. Describe different types of inflammation with examples. 2. Define fracture. Give examples. Add a note on fracture healing. II. **Short Essay on any two** 2x 5 = 103. Define emphysema. Write types of emphysema with example 4. Tuberculosis lung 5. Add a note on Rheumatoid & Osteoarthritis. 6. Write a note on carcinoma cervix. 7. Vitamin D deficiency. 8. Fibroadenoma breast 9. Define Necrosis Mention the types of necrosis with examples. III. **Short Answers** 5x 2 = 1010. Write different types of Renal stones 11. Mention fate of an thrombus 12. Write 2 ovarian tumors 13. Define neoplasia

14. Write 4 causes for edema

SUPPLEMENTARY EXAMINATION MARCH - 2017 I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN DIALYSIS TECHNOLOGY

TIME 3 HRS. MAX. MARKS: 90.

SECTION – A Biochemistry (Write in separate answer book) QP CODE — 2153

I. LONG ESSAY- ANSWER ANY ONE

10X1=10

- 1. What is the normal Blood Glucose level? Explain the factors regulating Blood Glucose level.
- 2. Describe the analysis of Abnormal Urine & interpret.

II. WRITE SHORT NOTES ON ANY FIVE

5x5 = 25

- 3. Digestion & Absorption of Carbohydrates.
- 4. Write the normal range of any five biochemical constituents in blood.
- 5. Renal function tests
- 6. Chemical composition of normal urine
- 7. Colorimeter Principle & Applications
- 8. Procedure for collection of blood sample & Separation of Serum/Plasma

III. WRITE SHORT ANSWERS

5X2=10

- 9. Test for detection of Urea in urine
- 10. Normal serum levels of Sodium, Potassium & Chloride
- 11. Blood Buffers
- 12. Volume, appearance, colour & pH of normal urine
- 13. Benedict's test

SECTION - B Microbiology (Write in separate answer book) QP CODE - 2154

I. Long essay

1*10=10

- 1. Define and classify sterilisation. Discuss in detail the disinfection followed in a haemodialysis unit.
- 2. Define and classify hypersensitivity. Write in deatail type 1 hypersensitivity.

II. Write short notes on any five

5*5=25

- 3. Candidiasis
- 4. Universal precautions
- 5. Bacteria spore
- 6. Standard precautions
- 7. Passive immunity
- 8. Koch's postulates

III. Write short answers

5*2=10

- 9. Name two gram negative cocci
- 10 .Name four articles sterilized by dry heat
- 11. Name four bacteria causing Nosocomial infections
- 12. Name two spore forming bacteria
- 13. Name two bacterial vaccines

SUPPLEMENTARY EXAMINATION MARCH - 2017

I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN Ophthalmic Technology

Q.P Code: 2162

Time: 3 Hrs.

Max. Marks: 90

Your answers should be specific to the questions asked. Draw neat labelled diagrams wherever necessary.

I. LONG ESSAY (Answer any two)

2 X 10 = 20

Layers of tear film and write briefly about dry eye and test done for dry eye evaluation

- 2. Discuss conjunctivitis, its clinical features and management
- 3. Classify glaucoma and write briefly on formation and circulation of aqueous humor

II. Short Essay

 $10 \times 5 = 50$

- 4. Herpes zoster ophthalmicus clinical manifestation and treatment
- 5. Worth four dot test
- 6. Definition and classification of squint
- 7. Cataract classification and pre operative evaluation
- 8. Stages and ocular changes in diabetic retinopathy
- 9. Ocular manifestation of chemical injury
- 10. Local anesthetics used in eye
- 11. Vernal keratoconjunctivitis.
- 12. Goldmann applanation tonometry and types of applanantion tonometry
- 13. Clinical features of cataract
- 14. Schirmer test
- 15. Trichiasis causes, clinical features and treatment

III. Write Short Answers

10X2=20

- 16. Mention some antiglaucoma drugs
- 17. Atropine eye drops
- 18. Mention some corneal degenerations
- 19. Hess screen test
- 20. Name some congenital cataract
- 21. Signs of aphakia
- 22. Mention some types of tonometry
- 23. Trichiasis
- 24. Differential diagnosis of red eye
- 25. Types of amblyopia

SUPPLEMENTARY EXAMINATION MARCH - 2017

I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN DENTAL MECHANICS

APPLIED ORAL ANATOMY Q.P Code: 2172

Time: 1.1/2 Hrs. Max. Marks: 45

I. LONG ESSAY - ANSWER ANY ONE

 $1 \times 10 = 10$

- 1) Describe the Anatomy of Maxillary permanent first molar.
- 2) What are the muscles of mastication. Write in detail about function of masseter muscle

II. WRITE SHORT NOTES ON ANY FIVE

5 X 5 = 25

- 3) Balanced occlusion
- 4) Morphology of mandibular canine
- 5) Maxillary supporting structures
- 6) Overjet and overbite
- 7) FDI notation of primary and permanent dentition
- 8) Define centric relation and centric occlusion
- 9) Muscles of phonation

III. WRITE SHORT ANSWERS

5 X 2 = 10

- 10) Name the muscles of tongue
- 11) Incisive papilla
- 12) Dentolabial sounds
- 13) Mid-palatine raphe
- 14) Lateral throat form

SUPPLEMENTARY EXAMINATION MARCH - 2017

I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN DENTAL MECHANICS

Section- A, GENERAL PATHOLOGY & MICROBIOLOGY (Write in separate answer book) QP code - 2183

Time: 1.1/2 Hrs. Max. Marks: 45

I. Long Essay (Answer any one)

1 x 9= 9 Marks

- 1. Discuss types steps & complications of wound healing.
- 2. Write oral manifestation of systemic disease.

II. Short Essay on any four

4x 5 = 20 Marks

- 3. Define necrosis? Mention different types of necrosis with examples.
- 4. Oral thrush
- 5. Vitamin A deficiency
- 6. Biomedical waste management
- 7. Write a note on oral ulcer
- 8. Pathology & bacteriology of dental cases

III. Short Answers

3x 2 = 6 Marks

- 9. Cardinal signs of Inflammation
- 10. Write clinical signs of vit D deficiency
- 11. Pyoderma

Section- B, GENERAL PHARMACOLOGY (Write in separate answer book) QP CODE- 2184

I. Write short answers

 $5 \times 2 = 10$

- 1. Low molecular weight Heparin.
- 2. Vitamin C.
- 3. Ferrous Sulfate.
- 4. Paracetamol.
- 5. Tri methoprim.

SUPPLEMENTARY EXAMINATION MARCH - 2017

I DPT - Section A —PHYSIOLOGY (Write in separate answer book) Q-P code -2192

Time 3 Hrs. Max. Marks: 90.

1. Long essay (Answer any THREE)

3x10=30

- 1. Draw a neat labeled diagram of a nephron .Add a note on the functions of kidney and renal function tests.
- 2. Describe the composition and function of gastric juice.
- 3. Name the clotting factors. Explain steps involved in hemostasis.
- 4. Name the endocrine glands. Add a note on growth hormone.

11. Write short notes on any five

5x5 = 25

- 5. Family planning methods in males and females.
- 6. Hypoxia
- 7. Draw a neat labelled diagram of neuromuscular junction.
- 8. Functions of liver
- 9. Spermatogenesis.
- 10. Functions of middle ear
- 11. Anticoagulants

111. Write short answers

5x2=10

- 10. Diabetes Mellitus and Diabetes Insipidus
- 11. Name two types of muscles.
- 12. Reflex arc
- 13. Normal value of cardiac output and stroke volume.
- 14. Name two functions of skin.

Section B —Biochemistry (Write in separate answer book) 2193

I LONG ESSAY- ANSWER ANY ONE

10 X1 = 10

- 1. Draw a neat labeled diagram of Cell and mention two important functions of subcellualr organelles
- 2. Define and classify enzymes and add a note on coenzymes and Isoenzymes.

II. WRITE SHORT NOTES ON ANY ONE

1x5=5

- 3. Photometry
- 4. Balanced diet

III WRITE SHORT ANSWERS

5X2=10

- 5. Function of vitamin D
- 6. Disaccharides
- 7. Hormones in Hypothyroidism
- 8. Essential fatty acids
- 9. Collagen.

SUPPLEMENTARY EXAMINATION MARCH - 2017

II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN

Medical Laboratory Technology QP CODE — 3103 Subject: Microbiology

Time: 3 Hours
I. Long essay-Answer any two

Max. Marks: 90 2*10=20

- 1. Classify and describe hypersensitivity reactions.
- 2. Classify various classes of immunoglobulins. Describe the structure, properties and functions of IgG.
- 3. Classify enterobacteriaceae. Describe pathogenesis and laboratory diagnosis of E.coli.

II. Write short notes on any ten

10*5=50

- 4. Indole test.
- 5. Classify clostridium.
- 6. Catalase test.
- 7. ASLO.
- 8. RA.
- 9. Malignant pustule.
- 10. Preparation of antibiotic disc.
- 11. Candida albicans.
- 12. Herpes simplex virus.
- 13. Coombs test.
- 14. Life cycle of entamoeba histolytica.
- 15. Life cycle and lab diagnosis of ancylostoma duodenal infections.
- 16. Quality control measures in microbiology

III. Write short answers

2*10 = 20

- 17. C reactive protein.
- 18. Name two bacteria which are Indole positive.
- 19. Hepatitis B vaccine.
- 20. Name two bacteria causing urinary tract infections.
- 21. Anaphylaxis.
- 22. Name two fungal opportunistic infections.
- 23. Name two DNA virus.
- 24. Name the two bacteria causing sexually transmitted diseases.
- 25. Name the parasite causing black water fever.
- 26. Name the parasite causing elephantiasis.

SUPPLEMENTARY EXAMINATION MARCH - 2017

II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN HEALTH INSPECTOR

QP CODE — 3113 Subject: Paper III

Time 3 Hrs. Max. Marks: 90

I. Long Essay — Answer any TWO

2x10=20.

- 1) Describe the levels of health care in India. Describe primary health centre in detail.
- 2) Describe Objective of School health programme in detail.
- 3) Describe Pneumoconiosis in detail.

II. Write Short notes on any TEN.

10x5=50.

- 4) ESI act.
- 5) Swacch Bharat Abhiyan.
- 6) Planning cycle.
- 7) Causes and prevention of accidents in industry.
- 8) Helmet.
- 9) Vaccine vial monitor.
- 10) Social security.
- 11) Biomedical concept.
- 12) Measures of Central tendency.
- 13) Theories of learning.
- 14) Sickness absenteeism.
- 15) Incidence and Prevalence.

III. Write Short Answers.

10x2=20

- 16) Stain used for Acid fast bacilli.
- 17) Louse infestation.
- 18) Name the diseases that are eradicated.
- 19) Write four Adverse events following immunisation.
- 20) Oral rehydration salts.
- 21) Name four helminthic infestations.
- 22) Janani suraksha yojana.
- 23) WHO day.
- 24) Breakpoint chlorination.
- 25) Weaning.

SUPPLEMENTARY EXAMINATION MARCH - 2017

II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN Medical X-Ray Technology

QP CODE - 3123

RADIOGRAPHY INCLUDING NEWER IMAGING TECHNOLOGY R — III

Time: 3 hrs Max. Marks: 90
I. LONG ESSAY — ANSWER ANY TWO 2 x 10 = 20

- 1) What is Barium meal follows through? Discuss in detail about procedure and complications of Barium meal follows through (BMFT).
- 2) What is C T Scan? Discuss about various parts and mechanism of C T Scan.
- 3) Explain the X-Ray tube structure in detail with neat diagram.

II. WRITE SHORT NOTES ON ANY TEN

 $10 \times 5 = 50$

- 4) Portable radiography.
- 5) Waters view.
- 6) Chest apicogram.
- 7) IV contrast agents.
- 8) Differentiate between single coated and double coated films.
- 9) Oral cholecystogram.
- 10) Biological effects of radiation.
- 11) X-Ray Cassets.
- 12) Rinsing.
- 13) Cystogram.
- 14) Wet bench.
- 15) T2 weighted image.

III. WRITE SHORT ANSWERS

 $10 \times 2 = 20$

- 16) Rectification.
- 17) Picture Archiving and Communication System (PACS).
- 18) Barium Sulphate.
- 19) Half value layer.
- 20) What is microradiography?
- 21) Centering.
- 22) Cones.
- 23) Stochastic Reaction.
- 24) Doppler.
- 25) Ultrasonography (USG).

SUPPLEMENTARY EXAMINATION MARCH - 2017

II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN

Medical Record Technology Computer Sciences QP CODE — 3143

Time: 1.30 Hours. Max. Marks: 40

I. LONG ESSAE -ANWER ANY ONE

1X10=10

- 1) Describe the Role, Advantages & Limitations of computers in Medical Records Department?
- 2) Write in detail the uses of computers in Out Patient (O.P) & In Patient (I.P) registration?

II. WRITE SHORT NOTES ANY FOUR

4X5 = 20

- 3) Hard disk
- 4) Floppy Disk
- 5) Display Adapter
- 6) Monitor
- 7) Dongle

III. WRITE SHORT ANSWERS

5X2=10

- 8) Arithmetic Logic Unit (ALU)
- 9) Kilo Byte (KB)
- 10) Central Processing Unit (CPU)
- 11) Networking
- 12) Local Area Network (LAN)
- 13) Internet

SUPPLEMENTARY EXAMINATION MARCH - 2017

II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN DENTAL HYGIENE

Operating room Technique, Chair side Assts. & Dental Materials, Ethics & Jurisprudence OP CODE - 3183

Time: 1 '1/2 hrs Max Marks: 45

I. Long essay

1x10 = 10

1. Describe the dentist act 1948 and its relation to registration of dental hygienists and dentists.

II. Write short notes

5x5 = 25

- 2. Dental specialities
- 3. Code of ethics
- 4. Objectives and scope of dentistry
- 5. Medicolegal issues in dental practice
- 6. Sterilization of dental instruments

III. Write short answers

2x5 = 10

- 7. Billing and accounting
- 8. Material maintenance and supply
- 9. Appointment and recall system
- 10. Charting and recording cases
- 11. Chairside assistance.

SUPPLEMENTARY EXAMINATION MARCH - 2017

CERTIFICATE COURSE BIOLOGY QP CODE 1103

Time: 1. ½ hrs

I. LONG ESSAY- ANSWER ANY ONE

Max. Marks: 45

1x10= 10

- 1) Draw a neat diagram of male reproductive system and explain spermatogenesis
- 2) Explain Watson and Crick model of DNA with labeled structure

II. WRITE SHORT NOTES ON ANY FIVE

5X5 = 25

- 3) Write a note on Mitosis
- 4) Digestion of lipids
- 5) Structure of nephron
- 6) T. S of pancreas
- 7) Differences between bone and cartilage
- 8) Fluid connective tissue, blood and lymph
- 9) Urine formation

III. WRITE SHORT ANSWERS

5x2=10

- 10) Electropheresis
- 11) Name two diseases caused by viruses
- 12) Causes of cancer
- 13) Fertilization
- 14) Functions of Golgi complex

SUPPLEMENTARY EXAMINATION MARCH - 2017

I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN

Medical Laboratory Technology

QP CODE — 2104

Subject: Pathology

Time 3 Hrs. Max. Marks: 90. LONG ESSAY: ANSWER ANY TWO: (2x10=20)

- 1. Write in detail about urine collection, preservation & physical examination.
- 2. Write preparation of thick & thin blood smear. Write procedure of peripheral smear staining by Leishman's stain.
- 3. Methods of hemoglobin estimation. Write in detail about Sahlis method & mention its merits and demerits.

II. SHORT ESSAY: ANSWER ANY TEN:

(10x5=50)

- 4. Reticulocyte staining & count
- 5. Fixatives used in histopathology. Add a note on formalin
- 6. Benedict's test
- 7. Absolute Eosinophil count
- 8. Anticoagulants
- 9. Erythrocyte Sedimentation Rate (ESR)
- 10. Decalcification of tissue
- 11. Pap stain
- 12. Neubaurs counting chamber- write neat diagram & mention its uses.
- 13. Ideal peripheral smear
- 14. Erythropoiesis
- 15. Steps in tissue processing

III. SHORT Answers

(10x2=20)

- 16. Normal differential leucocytes count
- 17. Name ketone bodies. Name test to identify ketone bodies.
- 18. Name 2 dehydrating & 2 clearing agents
- 19. Name 2 causes of Hematuria. Mention test to detect Hematuria
- 20. Name 2 mounting media
- 21. Name 2 cytological fixatives
- 22. Name 2 types of microtomes
- 23. Name 2 uses of buffy coat
- 24. Draw labelled diagram of Eosinophil.
- 25. Use of Heat Coagulation test

SUPPLEMENTARY EXAMINATION MARCH - 2017

I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN HEALTH INSPECTOR

QP CODE — 2112 Subject: Paper II

Time 3 Hrs. Max. Marks: 90.

I.	Long	Essay	Answer	any	TWO.
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2x10=20

- 1) Mention the parasitic diseases in humans. Discuss the life cycle of Malarial parasite.
- 2) Define Sanitation barrier and discuss its role in prevention of diseases.
- 3) Discuss Protein Energy malnutrition

II. Write short notes on any TEN

10x5-50

- 4) Classify Water borne diseases and control measures.
- 5) Slow sand filters.
- 6) Essential fatty acids.
- 7) First aid in burns.
- 8) Functions of PHC medical officer.
- 9) Food fortification.
- 10) Road to health.
- 11) Prevention of scabies.
- 12) Mid day meal programme.
- 13) Classify Vitamins. How do you prevent Vitamin A deficiency?
- 14) Sources of Air pollution and prevention.
- 15) Anganwadi worker.

III. Write short answers.

10x2 = 20

- 16) Four Iodine deficiency disorders.
- 17) Primary Immunisation.
- 18) Transmission of Dengue.
- 19) Right atrium.
- 20) Septic tank.
- 21) Types of Family.
- 22) Disease elimination.
- 23) Anopheles mosquito.
- 24) Role of family in society.
- 25) Effects of Radiation

SUPPLEMENTARY EXAMINATION MARCH - 2017

I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN

Medical X-Ray Technology QP CODE — 2123 Subject: Physiology

Time: 1. ½ Hrs Max marks: 45

I. Long essay - Answer any one.

- 1X10=10
- 1. Draw a neat labeled diagram of heart. Add a note on systemic circulation.
- 2. Name the endocrine glands .Add a note on the pituitary hormones and their functions

II. Short essay - Answer any five

5X5=25

- 3. Functions of gastric juice.
- 4. Errors of refraction
- 5. Hypoxia
- 6. Draw a neat labeled diagram of a cell.
- 7. Cerebro Spinal Fluid (C.S.F).
- 8. Family planning methods
- 9. Exchange of gases.

III. Short Answers

5X2=10

- 10. Deglutition and mastication
- 11. Name one male sex hormone and female sex hormone.
- 12. Name two liver function tests.
- 13. Name two hormones secreted by thyroid gland.
- 14. Write normal values of Fasting Blood Sugar (FBS) and Random Blood Sugar (RBS)

SUPPLEMENTARY EXAMINATION MARCH - 2017

I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN OT TECHNOLOGY

Time 3 Hrs. Max. Marks: 90.

<u>SECTION - A Anatomy (Write in separate answer book)</u> QP CODE — 2135

I. LONG ESSAY ANSWER ANY ONE

 $1 \times 10 = 10$

- 1. Name the parts of urinary system. Describe kidney
- 2. Name parts of gastrointestinal system. Describe liver

II. WRITE SHORT NOTES ON ANY FIVE

 $5 \times 5 = 25$

- 3. Synovial joint
- 4. Appendix
- 5. Uterus
- 6. Pituitary gland
- 7. Skin
- 8. Trachea

III. WRITE SHORT ANSWERS

 $5 \times 2 = 10$

- 9. Name 2 muscles of larynx
- 10. Name 4 muscles of lower limb
- 11. Name parts of Fallopian tube
- 12. Name the ear ossicles
- 13. Name the parts of small intestine

SECTION - B, Physiology (Write in separate answer book) QP CODE - 2136

I. LONG ESSAY - ANSWER ANY ONE

 $1 \times 10 = 10$

- 1. Define blood .Write the composition and function of blood.
- 2. Draw a neat labeled diagram of heart. Add a note on systemic circulation.

II. WRITE SHORT NOTES ON ANY FIVE

 $5 \times 5 = 25$

- 3. Functions of Thyroid hormone.
- 4. Pregnancy tests
- 5. Types of WBCs
- 6. Erythropoiesis
- 7. Platelets.
- 8. Erythrocyte Sedimentation Rate (ESR)
- 9. Transport of Oxygen and carbon dioxide in blood.

III. WRITE SHORT ANSWERS

 $5 \times 2 = 10$

- 10. Name two clotting factors.
- 11. Systolic BP and Diastolic BP.
- 12. Name two types of hypoxia.
- 13. Name two plasma proteins.
- 14. Name two refractive errors.

SUPPLEMENTARY EXAMINATION MARCH - 2017

I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN MEDICAL RECORD TECHNOLOGY

Subject: Hospital Statistics & Biostatistics QP CODE — 2145

Time 3 Hrs. Max. Marks: 90.

I. Long Essays. Answer any THREE

3x10=30

- 1) Define Biostatistics and its uses.
- 2) Enumerate Fertility indicators. Add a note on *Net reproduction rate* (*NRR*).
- 3) List various Notifiable diseases. Add a note on limitations.
- 4) Explain the Measures of Central tendencies.

II. Write briefly on any TEN.

10x5=50

- 5) Quantitative data.
- 6) Simple random sampling.
- 7) Net infection rate.
- 8) Incidence and its uses.
- 9) Record linkage.
- 10) Bar chart.
- 11) Census.
- 12) Life table.
- 13) Uses of Health information system.
- 14) Advantages of data presentation by graphs.
- 15) Standard deviation.

III. Write briefly on any Five.

5x2 = 10

- 16) Discharge.
- 17) Variable.
- 18) Pictogram.
- 19) Mode.
- 20) Standard error.
- 21) Queue system in OPD.

SUPPLEMENTARY EXAMINATION MARCH - 2017

I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN DIALYSIS TECHNOLOGY

Time 3 Hrs. Max. Marks: 90.

<u>SECTION - A Anatomy (Write in separate answer book)</u> QP CODE - 2155

I. LONG ESSAY— ANSWER ANY ONE

 $1 \times 10 = 10$

- 1. Name the parts of urinary system. Describe kidney
- 2. Name parts of central nervous system. Describe spinal cord

II. WRITE SHORT NOTES ON ANY FIVE

 $5 \times 5 = 25$

- 3. Testis
- 4. Pituitary gland
- 5. Trachea
- 6. Stomach
- 7. Elastic cartilage
- 8. Synovial joint

III. WRITE SHORT ANSWERS

 $5 \times 2 = 10$

- 9. Name 4 muscles of lower limb
- 10. Name the parts of ear
- 11. Name the parts of colon
- 12. Name branches of aortic arch
- 13. Name layers of skin

<u>SECTION - B Physiology (Write in separate answer book)</u> QP CODE - 2156

I. Long essay - Answer any one.

1X10 = 10

- 1) Draw a labeled diagram of Nephron. Describe the functions of the different parts of nephron. (5+5)
- 2) Write the composition and functions of blood. (5+5)

II. Short essay - Answer any five

5X5 = 25

- 3) Classify body fluid compartments and give their normal values.
- 4) Renal Function Tests.
- 5) Blood Groups.
- 6) Juxtaglomerular apparatus.
- 7) Write the normal values of Blood pressure. Add a note on regulation of blood pressure.
- 8) Functions of Proximal convoluted tubule of Kidney.
- 9) Plasma Proteins.

III. Short Answers

5X2=10

- 10) Give any two, Non excretory functions of kidneys.
- 11) Write normal values of a) R.B.C Count b) W.B.C Count.
- 12) Write the normal levels of a) Blood Urea b) Serum Creatinine.
- 13) Define Erythrocyte Sedimentation Rate (ESR). What is it's Normal value?.
- 14) Mention any two functions of White blood cells.

SUPPLEMENTARY EXAMINATION MARCH - 2017

I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN DENTAL MECHANICS

Time: 1.1/2 Hrs. Max. Marks: 45
Section- A, General Biochemistry (Write in separate answer book)

OP code - 2185

I. Long Question - Answer any ONE

 $1 \times 10 = 10$

- 1. Explain the basic food chemistry in relation to general & Oral health
- 2. Describe the role of Carbohydrates, Fats & Proteins in relation to dental & oral health.

II. Write short notes on any THREE

3x5 = 15

- 3. Test to detect proteinuria
- 4. Special diet in maxillofacial injury cases
- 5. Charting of individual diet
- 6. Test to detect Glucose in urine

Section- B, Radiology (Write in separate answer book) OP code - 2186

I. Write short notes:

4x5 = 20

- 1 Structure of an atom
- 2 Bisecting angle technique
- 3. Orthopantomography (O.P.G.)
- 4. Occlusal radiograph

SUPPLEMENTARY EXAMINATION MARCH - 2017

I DPT Microbiology Q.P code -2194

Time 3 Hrs. Max. Marks: 90.

I. Long assay (answer any two)

 $2 \times 10 = 20$

- 1. Enumerate the bacteria causing dysentery. Discuss in detail the laboratory diagnosis of the same
- 2. Define and classify sterilization. Discuss in detail moist methods of sterilisation.
- 3. Discuss the pathogenisis and laboratory diagnosis of Malaria

II. Write short notes (any ten)

 $10 \times 5 = 50$

- 4. Explain the laboratory diagnosis of bacterial meningitis
- 5. Ziehl Neelsen stain
- 6. Nosocomial infections
- 7. Bacterial spores
- 8. Life cycle of Entamoeba histolytica
- 9. Dermatophytes
- 10. Cultivation of virus
- 11. Routes of transmission of HIV virus
- 12. Antigen
- 13. Standard precautions
- 14. Coagulase test
- 15 Robert koch

III. Write short answers

 $10 \times 2 = 20$

- 16. Intradermal tests
- 17. Give four uses of anaerobic media
- 18. Name four inclusion bodies
- 19. Name four hospital acquired infection
- 20. Name four motile bacteria
- 21. Name four Hydrogen Sulfide (H_2S) produing bacteria
- 22. Name four acid fast bacilli
- 23. Name four articles sterilized by autoclave
- 24. Name four viral vaccines
- 25. Name four anaerobic bacteria.

SUPPLEMENTARY EXAMINATION MARCH - 2017

II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN MEDICAL RECORD TECHNOLOGY Subject: Medical Surgical Coding

QP CODE — 3144

Time 1 Hrs. Max. Marks: 20.

I. ANSWER ANY THREE QUESTIONS

3X5 = 15

- 1) Explain Main basic rules of Coding?
- 2) Explain the procedure of Coding in Malignant Condition?
- 3) Explain design and structure of ICD-10?
- 4) Discuss the Coding Procedure when the patient is Pregnant?

II. EXPAND THE FOLLOWING ABBRIVATION ANY FIVE 1X5=5

1. EEG

2. TAH

3.LFT

4. ALD

5. HIV

6.NES

SUPPLEMENTARY EXAMINATION MARCH - 2017

Common paper for all First Year Certificate courses ENGLISH OP CODE -1104

Time 1.1/2 Hrs. Max. Marks: 45. I. WRITE AN ESSAY ON ANY ONE OF THE FOLLOWING 15 X 1=15 1) Corruption 2) News papers II. **ANSWER ANY ONE** 10 X 1=10 3) Write a letter to your friend inviting him to a family function. 4) Write a letter to principal asking him for three days leave to visit relative III. WRITE THE OPPOSITE GENDER OF 5X1=5 5) Goose 6) Peacock 7) Sales man 8) Milk man 9) He goat IV. WRITE THE OPPOSITE OF THE FOLLOWING 5X1=5 10) Black 11) Opaque 12) Top 13) Brave 14) Soft V. WRITE THE SENTENCES USING THE FOLLOWING 5X1=5 15) As well as 16) Instead of 17) Either or 18) While 19) Even though VI. FILL IN THE BLANKS 5X1=5 20) Mathematics is ______ easy subject. 21) I am going to Delhi _____ Monday. 22) He is fond _____ music. 23) My friend came _____ Delhi yesterday. 24) The jockey fell _____ the horse.

SUPPLEMENTARY EXAMINATION MARCH - 2017

I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN

Medical Laboratory Technology QP CODE — 2105

Subject: Microbiology

Time 3 Hrs. Max. Marks: 90.

I. Long assay (answer any two)

 $2 \times 10 = 20$

- 1. Mention the different types of microscopes. Write in detail about care and handling of microscopes.
- 2. Classify Culture media. Write in detail preparation of blood agar
- 3. Draw a neat labeled diagram of bacterial cell. Explain about bacterial flagella

II. Write short notes (any ten)

 $10 \times 5 = 50$

- 4. Active immunity
- 5. Robert Koch
- 6. Fumigation
- 7. Standard precautions
- 8. Antigen
- 9. Urease test
- 10. Preparation of Gram stain
- 11. Antibody
- 12. Anaerobic media
- 13. Flagella
- 14. Dark ground microscopy
- 15. Bacterial spores

III. Write short answers

 $10 \times 2 = 20$

- 16. Name two gram negative cocci
- 17. Name two transport media
- 18. Name two chemical disinfectants
- 19. Name two uses of hot air oven
- 20. Name two articles sterilized by red heat
- 21. Name two non-motile bacteria
- 22. Give two uses of MacKonkeys agar
- 23. Name two animals used in microbiology
- 24. Name two urease positive bacteria
- 25. Name two gram positive bacilli

SUPPLEMENTARY EXAMINATION MARCH - 2017

I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN HEALTH INSPECTOR

QP CODE — 2113 Subject: Paper III

Time 3 Hrs. Max. Marks: 90.

I. Answer Any TWO.

2x10=20

- 1) Define epidemiology? Write the steps to be followed in Investigation of an epidemic.
- 2) What are arthropods? Discuss the life cycle stages of a mosquitoe and antilarval measures.
- 3) Write the levels of prevention of a disease. What are the interventional measures.

II. Short Notes on any TEN.

10x5=50.

- 4) National Immunisation schedule.
- 5) Diseases transmitted by Rodents and their control measures.
- 6) Life style diseases.
- 7) Modes of disease transmission.
- 8) House fly control measures.
- 9) Swimming pool sanitation.
- 10) Ice lined refrigerator.
- 11) Human development index.
- 12) Iceberg phenomenon.
- 13) Germ theory of disease.
- 14) Epidemiological triad in Japanese encephalitis.
- 15) Measures of central tendency.

III. Write Short Answers.

2x10=20.

- 16) Index case.
- 17) Sanitary well.
- 18) Pie chart.
- 19) Two Helminthic infestations.
- 20) Pulse polio Immunisation.
- 21) Two diseases transmitted by Ticks.
- 22) Paris green.
- 23) Four Mortality indicators.
- 24) Diseases transmitted by faeco oral route.
- 25) Two zoonotic diseases

SUPPLEMENTARY EXAMINATION MARCH - 2017

I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN

Medical X-Ray Technology

QP CODE — 2124

Subject: Pathology

Time: 1. ½ Hrs Max marks: 45

I. LONG ESSAY: Answer any one:

(1x10=10)

- 1. Define inflammation. What are the signs of inflammation? Describe different types of inflammation with examples.
- 2. Define Fracture with examples. Add a note on fracture healing.

II. SHORT ESSAY: Answer any Five:

(5x5=25)

- 3. Define emphysema. Write types of emphysema with example
- 4. Tuberculosis of lung
- 5. Write a note on Rheumatoid arthritis.
- 6. Write a note on carcinoma cervix.
- 7. Vitamin D deficiency.
- 8. Fibroadenoma breast
- 9. Define Necrosis, Mention the types of necrosis with examples.

III. SHORT NOTES:

(5x2=10)

- 10. Write 2 types of Renal stones
- 11. Mention fate of a thrombus
- 12. Write 2 Ovarian tumors
- 13. Define neoplasia
- 14. Write 2 causes of edema.