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

TIME 3 HRS.

QP CODE — 3101 BIOCHEMISTRY

I Long Essay — answer any TWO

- 1. Describe Principle, different types and applications of Chromatography (2+3+5=10)
- 2. Describe renal functions tests. Add a note on normal values of all parameters of Renal Function Test (7+3=10)
- 3. Define Glycolysis. Explain the step of Glycolysis and add a note on its energetic. (2+6+2=10)

II Write short notes on any TEN

- 4. Regulation of blood glucose
- 5. Ion Selective Electrodes (ISE)
- 6. Digestion and Absorption of proteins
- 7. Electrophoresis techniques and its application in Clinical laboratory
- 8. Sources of Ammonia and Formation Urea
- 9. Automation in laboratory
- 10. Normal constituents of urine
- 11. Radio Immuno Assay principles and application
- 12. External quality control
- 13. Creatinine synthesis, excretion and normal serum values
- 14. ELISA principles and application
- 15. Urea and creatinine clearance tests

III Write short answers

- 16. Name electrolytes and their normal values.
- 17. Name Ketone bodies
- 18. Rothera's test
- 19. Name two Cardiac markers
- 20. Photo electric colorimeter.
- 21. Metabolic acidosis.
- 22. Plasma proteins.
- 23. Name two enzymes involved in digestion of carbohydrates
- 24. Write two differences between plasma and serum.
- 25. Record keeping in Laboratory

2x10=20 tography

MAX. MARKS: 90.

$10 \times 2 = 20$

10x5 = 50

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

TIME 3 HRS.

OP CODE - 3111 PAPER I

Long Essay - Answer any TWO I.

- 1. What is Primary Health Care? Write a note on elements of Primary Health Care.
- 2. What is the role of Carbohydrates in Diet? List sources rich in carbohydrates.
- 3. What are the risk factors for Diabetes? Discus the role of exercise in **Diabetes Control?**

II. Write short notes on any TEN

- 4. Pulse polio immunization.
- 5. Preventive measures to control Mosquito breeding
- 6. Healthcare waste hazards
- 7. Dimensions of Health
- 8. Transportation facilities in hospital
- 9. Incineration
- 10. Epidemiological Triad
- 11. Infant Mortality Rate
- 12. Joint family
- 13. Sanitation barrier
- 14. Sources of Vitamin A
- 15. Disaster preparedness

III. Write short answers

- 16. BCG vaccine
- 17. Paramedical worker
- 18. Sanitary latrine
- 19. Housefly
- 20. Functions of Blood Bank
- 21. Condom
- 22. Aedes mosquito control
- 23. Janani Suraksha Yojana
- 24. Growth Chart
- 25. Iodine deficiency disorder

 $10 \times 5 = 50$

 $10 \times 2 = 20$

 $2 \times 10 = 20$

MAX. MARKS: 90.

PARAMEDICAL BOARD, BANGALORE SUPPLEMENTARY EXAMINATION FEBRUARY - 2018 II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN MEDICAL X-RAY TECHNOLOGY		
RADIOGRAPHY INCLUDING RADIOLOGY PHYS	ICS (N.S) R-1	
 I LONG ESSAY- ANSWER ANY TWO 1) Explain fluoroscopy and image intensifiers? 2) Basic principle of X-rays and its properties? 3) Write about X-ray generators? 	2X10=20	
 II. WRITE SHORT NOTES ON ANY TEN 4) Collimation. 5) Factors affecting radiographic films. 6) Three phase generators. 7) Anode healing effect. 8) Grids. 9) Fixers. 10) Fundamentals of photographic process. 11) Fluroscopy. 12) Mammography. 13) Intensifying screens. 14) Exposure factors. 15) Isotopes. 16) Ultrasound. 	10X5=50	
 III. WRITE SHORT ANSWERS 17) Picture Archiving and Communication System (PAC 18) Clinical history. 19) Bucky. 20) Half wave rectifier. 21) Atomic number. 22) Resistors. 23) Electric current. 24) Flemming's right hand rule. 25) Voltage. 	10x2=20	

25) Voltage. 26) Magnets.

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

TIME 3 HRS.

OP CODE - 3131 **ANAESTHESIA & ALLIED TOPICS**

I. ANSWER ANY TWO

- 1) Enumerate different types of intravenous induction agents. Describe in detail about propofol. (4 + 6).
- 2) Describe preanaesthesia check list. How do you premedicate a patient aged 40yrs who is posted for laproscopic cholecystectomy. (5 + 5)
- 3) Classify muscle relaxants. Write in details about suxamethonium (scoline). (4 + 6)

II. WRITE SHORT NOTES ON ANY TEN

- 4) Epidural anaesthesia.
- 5) Basic life support. (BLS).
- 6) Anaesthesia related occupational hazard & prevention.
- 7) Morphine.
- 8) Induced hypotention.
- 9) Bain circuit.
- 10) Medico-legal aspects of anaesthesia.
- 11) Induced hypothermia.
- 12) Bupivacaine.
- 13) Anti arrhythmic drugs.
- 14) Fentanyl.
- 15) Blood transfusion reactions.

III. WRITE SHORT ANSWERS

- 16) Magill's forceps.
- 17) Inform written consent.
- 18) Laryngoscope.
- 19) Ephderine.
- 20) Patient safety programme.
- 21) Spinal needles.
- 22) Neostigmine.
- 23) Endotracheal tubes.
- 24) Crystalloids.
- 25) Sevoflurane.

2X10=20

MAX. MARKS: 90.

10X2 = 20

10X5 = 50

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

TIME 3 HRS. MAX. MARKS: 90. **OP CODE** - 3141 MEDICAL TERMINOLOGY **I)** Answer the Following. 3x5 = 151. What are the elements of medical terms 2. What are the objectives of medical terminology? 3. Name the five commonly used eponyms 4. Name the bones of the upper arm 5. Define medical terminology and its purpose II) Give the Meaning for the following Suffixes $1 \times 10 = 10$ 1. - itis 6. - desis 2. - osis 7. - ectomy 3. - iasis 8. - oid 4. - oma 9. - megaly 5. - ecasis - lysis 10. III) Write the meaning of the following phobias $1 \times 10 = 10$ 6) Nyctophobia 1) Hygrophobia 2) Lalophobia 7) Phenophobia 8) Thantophobia 3) Bathophobia 9) Mysophobia 4) Cenophobia 10) Ponophobia 5) Autophobia IV) Give the meaning for the following prefixes 1x10=10a. Hyper f. Sub b. Ab Pro q. c. Contra h. Syn d. Bi i. Hemi e. Epi i. Para V) Give the Meaning for the following 1x5 = 51) Deca 2) Octo 3) Primus 4) Quadri

5) Centi

Q P CODE 3141 MEDICAL TERMINOLOGY

VI. MATCH THE FOLLOWING			1x5=05		
2) 3) 4)	Ruber Niger Aureus Leukos Flavus	Black White Yellow Golden Red			
VII.	WRITE THE CORRE	CT MEANING O)F	MEDICAL TERMS	1X10=10
2. 3. 4.	Herniotomy Endocarditis Myorrhaphy Arthritis Anorexia	7 8 9		Stridor Gastrectomy Leukopenia Chondroma Splenomegaly	
	. WRITE THE MEANI	NG OF THE FOL	.L(OWING ROOTS	1x5=05
4.	,				
IX. \	WRITE THE CORRCET	MEDICAL TER	M	S	1X10=10
2) 3) 4) 5) 6) 7) 8) 9) 10	Enlarged herniated Tumor of the liver Plastic repair of ren Absence of menstr Peritonsillar absces) Inflammation of t	for removal of the urethra kin due to loca I swollen veins nal pelvis uation ss the testis	of al s r	calculi absence of pigment near the testicle	
Х. Е	XPAND THE FOLLOW	ING ABBREVAT	ΓΙ	ONS	1X10=10
2. 3. 4.	PPRP SLE SDH FTND PIVD	6. TVH 7. RHD 8. UTI 9. PPBS 10.CPD	5		

PARAMEDICAL BOARD, BANGALORE

SUPPLEMENTARY EXAMINATION FEBRUARY - 2018

II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN

DIALYSIS TECHNOLOGY

TIME 3 HRS.

QP CODE - 3151

FUNDEMANTALS OF HEMODIALYSIS AND COMPONENTS

I) LONG ESSAYS (ANY TWO)

- 1. Discuss management of neurological complications in dialysis patients.
- 2. Discuss monitoring protocols regarding
 - a) dialysate composition,
 - b) hemodialysis machine function
 - c) patient safety and
 - d) safety of health care persons
- 3. Discuss clinical and biochemical parameters to assess dialysis adequacy

II) WRITE SHORT NOTES (ANY TEN)

- 4. Catheter associated bloodstream infection
- 5. Discuss 'rule of sixes' for Arterio Venous fistula maturation
- 6. Discuss care of tunnelled venous catheters. Add a note on catheter locks
- 7. Cannulation of new Arterio Venous fistula and Arterio Venous graft
- 8. Blood loss during dialysis
- 9. Daily dialysis
- 10. Central vein stenosis
- 11. Intradialytic hypertension
- 12. Sudden Cardiac Death
- 13. Advantages and disadvantages of dialyser reuse
- 14. Dialyser reactions
- 15. Indications and benefits of Sodium modelling during dialysis

III) WRITE SHORT ANSWERS

- 16. Activated clotting time
- 17. Two causes of Chronic kidney Disease.
- 18. Two types of dialyzer membrane materials
- 19. Two vaccines recommended for dialysis patients
- 20. Two oral antidiabetic drugs
- 21. Two indications to stop hemodialysis
- 22. Dialytic management of hypercalcemia
- 23. Two causes of chest pain during dialysis
- 24. Signs of clotting in the extracorporeal circuit
- 25. Name two uremic toxins

10X5 = 50

10X2=20

2X10=20

MAX. MARKS: 90.

PARAMEDICAL BOARD, BANGALORE

SUPPLEMENTARY EXAMINATION FEBRUARY - 2018

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

TIME 3 HRS.

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)

- 1. How to prepare a patient for cataract surgery
- 2. Define chalazion ,steps of chalzion surgery
- 3. How to maintain Tonometers

2. SHORT ESSAYS.(Answer any ten)

- 4. Uses of lensometer
- 5. How to Sterlize ophthalmic OT instruments
- 6. How to give sub-conjuctival injection
- 7. How to differentiat drops from ointments
- 8. Post operative instructions after cataract surgery
- 9. What is Focimeter. add a brief note on it
- 10. Surgical instruments used in Cataract surgery.
- 11. How to maintain contact lenses
- 12. Advantage of Indirect ophthalmoscope over Direct opthalmoscope.
- 13. How to maintain & calibrate keratometer
- 14. Instruments required for squint surgery
- 15. Note on Autoclaving

3. WRITE SHORT ANSWERS.

- 16 Mention two types of Entropion
- 17 How to do ocular bandaging of eyes
- 18 Two indications for giving Sub- conjuctival injection
- 19 Contact lens in keratoconous
- 20 How to cut lashes
- 2i Two types of keratometers
- 22 Advantage of Executive bifocals
- 23 Indications for doing Epilation
- 24 Mention two Entropion surgeries
- 25 With movement of glow at pupillary area when retinoscopy done at 1.5 meter

2 x 10= 20

 $10 \times 5 = 50$

MAX. MARKS: 90.

10 x 2 =20

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

TIME 1.1/2 HRS. QP CODE — 3171 COMPLETE DENTURES	MAX. MARKS: 45.
I. LONG ESSAY	1 X 10 =10
1. Explain in detail about the articulators.	
II. WRITE SHORT NOTES	5 X 5 =25
 Compression mould technique Dental cast Repair of fractured acrylic dentures Relining and rebasing of acrylic dentures Immediate dentures 	
III. WRITE SHORT ANSWERS	5 X 2 =10
 7. Cold mould seal 8. Anatomic teeth 9. Festooning 10. Curve of Wilson 	

11. Acrylic denture teeth

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

TIME 1.1/2 HRS.

QP CODE — 3181

DENTAL HYGIENE & ORAL PROPHYLAXIS

1.LONG ESSAY

1. Define dental plaque. Describe the various steps of plaque formation.

II. WRITE SHORT NOTES

- 2. Difference between gingival pocket and periodontal pocket
- 3. Define dental hygiene and objectives of dental hygiene.
- 4. Interdental cleansing aids.
- 5. Stages of gingival inflammation.
- 6. Brief account of oral cancer.

III. WRITE SHORT ANSWERS

- 7. Periodontal abscess.
- 8. Periodontal probes.
- 9. Home care instructions.
- 10. Different types of dental stains.
- 11. Uses of plaque disclosing agents.

MAX. MARKS: 45.

1X10=10

5X5=25

5x 2=10

1710-

CERTIFICATE COURSE

TIME 1.1/2 HRS.

MAX. MARKS: 45.

10X1 = 10

5X5 = 25

QP CODE - 1101 PHYSICS

I. LONG ESSAY- ANSWER ANY ONE

- 1) What is Radioactivity? Explain the properties of Alpha, Beta & Gamma rays.
- 2) Explain the properties of sound? Mention the uses of thermal radiations.

II WRITE SHORT NOTES ON ANY FIVE

- 3) Transistor and it's uses.
- 4) Spectrum.
- 5) Coulomb's Law.
- 6) Laws of reflection.
- 7) Explain Spectrometer.
- 8) S.I Units.
- 9) Capacitor.

III. WRITE SHORT ANSWER

5X2=10

- 10) Refractive Index.
- 11) Electrical Resistance.
- 12) Limitations of Ohm's law.
- 13) Nuclear Fusion.
- 14) Scalar and Vectors.

PARAMEDICAL BOARD, BANGALORE

SUPPLEMENTARY EXAMINATION FEBRUARY - 2018 I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN MEDICAL LABORATORY TECHNOLOGY

TIME 3 HRS.

QP CODE - 2101

SECTION - A ANATOMY (WRITE IN SEPARATE ANSWER BOOK)

I. LONG ESSAY - ANSWER ANY ONE

- 1. Name the parts of Alimentary system. Describe Pancreas in detail..
- 2. Describe uterus in detail.

II. Write Short Essays Any 5

- 3. Histology of bone
- 4. Trachea
- 5. Submandibular salivary gland
- 6. Small Intestine
- 7. Prostate
- 8. Spinal cord
- 9. Spleen

III. Write Short Answers

- 10. Name any four cranial nerves
- 11. Name any four arteries of upper limb.
- 12. Name any four veins of lower limb.
- 13. Name parts of excretory system.
- 14. Name the parts of Heart.

OP CODE – 2102

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

I. Long Essay – Answer any ONE

- 1. Classify white blood cells & write their functions
- 2. List the hormones of anterior pituitary gland & write the functions of growth hormone

II. Write short notes on any FIVE

- 3. Name & write about plasma proteins
- 4. Write the properties of cardiac muscle
- 5. Name 4 lung capacities & give their normal values
- 6. Explain the digestion of fats
- 7. Draw labelled diagram of juxtra-glomerular apparatus & list its functions
- 8. Write the stages of spermatogenesis

III. Write short answers

- 9. Define bleeding time & give normal values
- 10. Name the inspiratory muscles
- 11. Write types of hypoxia
- 12. What is milk ejection'reflex
- 13. Write 2 functions of testis

5 x 2=10

$1 \times 10 = 10$

5 x 5 = 25

 $1 \times 10 = 10$

 $5 \times 5 = 25$

MAX. MARKS: 90.

 $5 \times 2 = 10$

PARAMEDICAL BOARD, BANGALORE

SUPPLEMENTARY EXAMINATION FEBRUARY – 2018 I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN MEDICAL X-RAY TECHNOLOGY

TIME 1.1/2 HRS.

QP CODE - 2121

GENERAL PHYSICS

I LONG ESSAY- ANSWER ANY ONE

1.) Production of X-rays? Write about X-ray tubes?

2.) Write about magnetism? Write about magnetic materials & properties?

II. WRITE SHORT NOTES ON ANY FIVE

- 3.) Energy.
- 4.) Atom.
- 5.) Auto-transformers.
- 6.) Cathode.
- 7.) Insulators.
- 8.) Law of conservation of energy.

III. WRITE SHORT ANSWERS

- 9) Ohm's law.
- 10).Rectifier
- 11) Forms of energy.
- 12) Voltameter.
- 13) Mass number.

1X10=10

5X5=25

5x2=10

MAX. MARKS: 45.

5x2

<u>AL PHYSICS</u>

PARAMEDICAL BOARD, BANGALORE

SUPPLEMENTARY EXAMINATION FEBRUARY – 2018 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

- 1. Describe an ideal Operation Theater plan and discuss how do you begin a new Operation Theater.
- 2. What is ambulatory surgery? Explain in detail the facilities for it in a hospital.
- 3. What are the various methods of sterilisation & discuss in detail about autoclaving.

II WRITE SHORT NOTES ON ANY TEN

- 4. Surgical scrubbing
- 5. Day care surgery
- 6. Central venous pressure (CVP)
- 7. Central sterile supply department
- 8. Electrocautery
- 9. Informed consent
- 10. Blood transfusion
- 11. Skin grafting
- 12. Laparoscopic surgery
- 13. Osteomyelitis
- 14. Wound infection
- 15. Pulse oxymeter

III WRITE SHORT ANSWERS

- 16. Enema
- 17. Draping
- 18. Linen packing
- 19. Ring block
- 20. C- arm
- 21. Boyle's apparatus
- 22. Instruments for lumbar puncture
- 23. Positions for operations
- 24. Ryle's tube
- 25. Cleaning of OT after surgery

2X10 =20

10 X5 = 50

10 X2 = 20

PARAMEDICAL BOARD, BANGALORE SUPPLEMENTARY EXAMINATION FEBRUARY – 2018 I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN Medical Records Technology

TIME 3 HRS.

fedical Records Technology

MAX. MARKS: 90.

QP CODE – 2141 MEDICAL RECORD SCIENCE (MRS)

I. LONG ESSAY – ANSWER ANY TWO.

2 X 10 = 20

- 1) Discuss about the Medical Records Committee, Describe its composition, Responsibilities & Functions?
- 2) Under I.P Code 1860 under general exemption, which are the acts that are exempted from the criminal liability?
- 3) Write about the Development of Medical Records in India?.

II. WRITE SHORT NOTES ON ANY TEN.

$10 \times 5 = 50$

10 X 2 = 20

- 4) Quantitative & Qualitative analysis?
- 5) Which are the deficiencies commonly found in the case sheet & what are the procedure to complete it?
- 6) Write any three accepted definitions of Medical Records?
- 7) Bailable & Non Bailable Offence?
- 8) Write the rules and regulation follow to release the information to the government and other agencies? 9) Collections of Evidence?
- 10) Draw the Flow chart of I.P Records
- 11) Write about the Values of Medical Records ? 12) Accession Register?
- 13) Define Workmen Compensation Act & Malpractice Act?
- 14) Define the burden of proof when does the burden lies on the accused?
- 15) List out the Basic & Special Forms with Specifications?

III. WRITE SHORT ANSWERS.

- 16) I.P Counter
- 17) Misfiling
- 18) F.I.R
- 19) Movable Property
- 20) Discharge Analysis
- 21) Summons
- 22) Death Register
- 23) Good faith
- 24) Daily Census
- 25) Numbering System

PARAMEDICAL BOARD, BANGALORE

SUPPLEMENTARY EXAMINATION FEBRUARY – 2018

I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN

DIALYSIS TECHNOLOGY

TIME 3 HRS.

QP CODE - 2151

SECTION - A PHARMACOLOGY (WRITE IN SEPARATE ANSWER BOOK)

I. LONG ESSAY – ANSWER ANY ONE

- 1. Name any six commonly used analgesics. Mention four uses, four adverse effects and four contraindications of Morphine. Name one opioid antagonist (3+2+2+2+1)
- Name any ten commonly used antiseptics and disinfectants. Write one use for each (5+5)

II WRITE SHORT NOTES ON ANY FIVE

- 3. Calculate the amount of ingredients required to prepare 2 litres of 5% dextrose solution.
- 4. Vitamin C
- 5. Solid dosage forms.
- 6. Oral route of drug administration
- 7. Aspirin-uses and adverse effects
- 8. Glucocorticoides —adverse effects

III. WRITE SHORT ANSWERS

- 9. Name two drugs used for treating round worm infestation
- 10. Name two live attenuated vaccines
- 11. Name two drugs used for treating diabetes mellitus
- 12. Name two toxoids
- 13 Name the antidote for poisoning due to a. Paracetamol b. Diazepam

QP CODE — 2152

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

I) LONG ESSAYS-ANSWER ANY ONE

- 1. Describe the water treatment plant in your dialysis unit. Aslo add a note on steps in purification of water used for hemodialysis(5+5)
- 2. Define hemodialysis. What are the indications for hemodialysis. Also mention about 4 complications commonly seen during hemodialysis.(3+3+4).

II) SHORT NOTES ON ANY FIVE

- 3. Lab investigations done in a patient on hemodialysis
- 4. How do you monitor a patient during hemodialysis?
- 5. Define dialysis disequilibrium syndrome. How do you manage and prevent it?
- 6. Describe the various types of hemodialysis access. Mention two sites for venous catheter placement.
- 7. Write a short note on washing of accessories of hemodialysis.
- 8. Describe reverse osmosis with diagram.

III) WRITE SHORT ANSWERS (any five) 5X2=10

- 9. Normal BP and pulse rate
- 10.Two sites of AV Fistula
- 11.Two anticoagulants used during hemodialysis
- 12.Describe wet needle technique of cannulation.
- 13. Two blood borne infections in your dialysis unit
- 14.Two vaccines given to hemodialysis patients.

MAX. MARKS: 90.

 $1 \times 10 = 10$

5X5=25

5 X 2 =10

5X5=25

1X10=10

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)

- 1. What are the components of binocular single vision? Describe in brief about each of them.
- 2. Draw the layers of conjunctiva and note on imporatance of each layer ?
- 3. How do you interpret distance snellen's visual acuity ?

II. SHORT ESSAYS .

10 X 5 =50

 $2 \times 10 = 20$

- 4. Types of colour vision defects
- 5. Atropine in ophthalmology
- 6. Describe, how to check for uniocular eye movements
- 7. Bones forming the medial wall of orbit
- 8. In brief about types of Perimeters
- 9. Indention Tonometry
- 10. Tests for Stereopsis?
- 11. What are laws of Refraction?
- 12. How to perform Keratometry
- 13. Pre-op investigations in patient undergoing any sac surgeries
- 14. Note on Simple transpositions?
- 15. Schematic diagram of Strum's conoid

III. WRITE SHORT ANSWERS

10X2=20

- 16 Therapeutic uses of Contact lenses
- 17 Types of SRK formula
- 18 Types of Aberrations in eye
- 19 Two causes of Night blindness
- 20 Mention types of Bifocal lenses
- 21 Types of Cataract surgeries
- 22 Two eye Refractive errors
- 23 Mention two uses of Prisms in ophthalmololgy
- 24 Types Keratometers
- 25 Layers of Eye ball

I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN **DENTAL MECHANICS** MAX. MARKS: 45.

TIME 1. 1/2 HRS.

OP CODE - 2171 PAPER I

I. LONG ESSAY - ANSWER ANY ONE

- 1. Classify impression materials. Write the composition setting reaction and technical considerations of alginate impression material.
- 2. Write any one classification of dental alloys. Write in detail about the base metal alloys.

II. WRITE SHORT NOTES ON ANY FIVE

- 3. Annealing
- 4. Soldering and welding
- 5. Zinc oxide eugenol cement
- 6. Dental stone
- 7. Autopolymerising resin
- 8. Finishing and polishing agents used in dentistry
- 9. Investment materials

III. WRITE SIIORT ANSWERS

5 X 2 =10

10.Two uses of glass inomer cements

- 11.Separating media
- 12.Gold alloys
- 13.Dimensional stability
- 14.Casting ring

 $1 \times 10 = 10$

5 X 5 25

PARAMEDICAL BOARD, BANGALORE SUPPLEMENTARY EXAMINATION FEBRUARY – 2018		
I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN DENTAL HYGIENE		
TIME 1. 1/2 HRS.	MAX. MARKS: 45.	
QP CODE — 2181 ANATOMY <u>(WRITE IN SEPARATE ANS</u>	WER BOOK)	
······	<u></u>	
I Long essays (any 1)	1x9=9	
1. Describe submandibular gland.		
2. Describe trigeminal nerve.		
II Short essays (any 2)	2X5 =10	
3. Histology of cartilage.		
4. Facial artery.		
5. Structure of Tooth.		
III Short answers	3x2=6	
6. Name the Muscles of mastication.		
7. Name branches of facial nerve.		
8. Name paranasal air sinuses.		
Q.P.CODE-2182		
PHYSIOLOGY (WRITE IN SEPARATE A	NSWER BOOK)	
I. Write short notes	4 X 4=16	
1) Parathyroid gland secretions and functions		
2) Blood Groups		
3) Mechanism of swallowing		
4) Clotting factors		
II. Write short answers	2 X 2=4	
5) 2 Functions of kidney		
6) Neat labeled diagram of Heart		

I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN PHYSIOTHERAPY

TIME 3 HRS.

QP CODE - 2191

I. Long essays (any 2)

- 1) Name the Chambers of Heart.Give its Surfaces, Borders &Blood supply
- 2) Classify bones with examples. Describe Long bone with its blood supply
- 3) Name the parts of Brain .Describe in detail about Cerebrum

II. Short essays (any 10)

- 4) Brochopulmonary segments
- 5) Pronation & Supination-Muscles & joints involved in it
- 6) Histology of Hyaline cartilage
- 7) Bl000d supply of knee joint
- 8) Muscles of Posterior compartment of leg and give its nerve supply
- 9) Neuron
- 10) Histology of skin
- 11) Gluteus maxims
- 12) Stomach
- 13) Urinary bladder
- 14) Uterus -Parts and supports
- 15) Pituitary gland

III. Short answers:

- 16) Name 2 cranial nerves
- 17) Name muscles of mastication
- 18) Name contents of Spermatic cord
- 19) Openings in the Thoraco-abdominal Diaphragm
- 20) Superficial palmar arch
- 21) Name the types of Epiphysis
- 22) Name 2 branches of Brachial artery
- 23) Name features of Large Intestine
- 24) Name 2 types of Synovial joints of lower limb
- 25) Name 2 branches of External carotid rtery

10x2=20

10x5=50

2x10=20

MAX. MARKS: 90.

PARAMEDICAL BOARD, BANGALORE SUPPLEMENTARY EXAMINATION FEBRUARY - 2018 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. What are the different types of Haematoxylins. Write briefly the Principle, preparation, staining methods and storage (3+2+3+2)

2. Discuss the prerequisites and requirements to organize a blood camp in the school. Add a note on the benefits of Blood donation (3+4+3)

3. What is Automation? What are the equipment's used in haematology; and describe the working principle of Automated haematology cell counter (2+4+4)

II. Short Essay : (Answer any ten)

10x5=50

10x2=20

- 4. Mounting Technique for museum specimen.
- 5. Decalcification
- 6. Quality control in Blood Banking
- 7. Qualities of an Ideal Paraffin Block
- 8. Reticulin Stain
- 9. Cross Matching
- 10. Indirect Coomb's Test
- 11. Phlebotomy and its Complications
- 12. Method of Cell Counting in Cerebrospinal fluid
- 13. Indications for Bone Marrow and Sites of Bone marrow Aspiration
- 14. Morphology of Sperms with Diagram
- 15. Osmotic fragility test Use and procedure

III. Short Answer :

- 16. Stains Used in Pap Smear
- 17. Principle of Microwave Tissue Processing
- 18. Preparation of Eosin stain
- 19. Indication for Frozen sections
- 20. Significance of Blood grouping
- 21. How do You Prepare Sputum for Cytological Examination
- 22. Which is the two authotrity which control Blood bank
- 23. Name two immunomarkers
- 24. Two uses of xylene
- 25. Normal Prothrombin Time and Acitvated Thromboplastin Time

PARAMEDICAL BOARD, BANGALORE SUPPLEMENTARY EXAMINATION FEBRUARY - 2018 II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN HEALTH INSPECTOR QP CODE — 3112 Subject: Paper II

Time 3 Hrs.

I. Long Essay — Answer any TWO

- 1. Write different barrier methods. Add a note on Condoms.
- 2. List micronutrient deficiencies and its prevention in children.
- 3. List the examination and lab investigation of antenatal mother.

II.Write Short notes on any TEN.

- 4. Male sterilization.
- 5. Causes of Infant Mortality.
- 6. Diet of a Lactating mother.
- 7. Problems of a preschool child.
- 8. Dietary advice to a pregnant lady.
- 9. Permanent sterilization methods in Females.
- 10. Different methods of mass approach.
- 11. Add a note on breastfeeding.
- 12. Complications of postpartum period.
- 13. Behavioral problems in children.
- 14. Health Appraisal of a child in school health services.
- 15. Problem family.

II. Write Short Answers.

- 16. Postpartum programme.
- 17. Kangaroo Mother Care.
- 18. Foster homes.
- 19. Define Maternal Mortality Rate.
- 20. Folk Media.
- 21. Two way communication.
- 22. List four causes of communication barrier.
- 23. Define demography.
- 24. List two causes of mortality in preschool child.
- 25. Anganwadi Worker.

Marks:90

2x10=20.

10x5 = 50.

10x2=20

PARAMEDICAL BOARD, BANGALORE

SUPPLEMENTARY EXAMINATION FEBRUARY - 2018

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

- 1) What is uretherogram? Discuss about antegrade & retrograde uretherogram?
- 2) Briefly explain about hysterosalphingography?
- 3) Discuss about X-ray and imaging?

II WRITE SHORT NOTES ON ANY TEN

- 4) Dark room procedures.
- 5) View box.
- 6) Secondary radiation.
- 7) Water's view.
- 8) KvP.
- 9) Patient preparation.
- 10) Digital radiography.
- 11) Barium swallow.
- 12) Cassettes.
- 13) Sinogram.
- 14) Radiation protection.
- 15) Consent form.

III. WRITE SHORT ANSWERS

- 16) TLD badge.
- 17) Clinical history.
- 18) Chest X-ray brief.
- 19) Filament.
- 20) Negative image.
- 21) Positive contrast.
- 22) Electro Magnetic (EM) radiation.
- 23) Conventional radiography.
- 24) Medical records.
- 25) Medico legal case.

$10 \times 5 = 50$

$10 \times 2 = 20$

 $2 \times 10 = 20$

PARAMEDICAL BOARD, BANGALORE SUPPLEMENTARY EXAMINATION FEBRUARY - 2018 II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN OT Technology QP CODE - 3132 OPERATIVE PROCEDURE

Time 3 Hrs.		Max. Marks: 90.
Ι	 LONG ESSAY- ANSWER ANY TWO Laparoscopic surgery. Special features of Orthopedic surgery. Shock, hemorrhage and DIC. 	2x10=20
11.	 WRITE SHORT NOTES ON ANY TEN 4. Organ transplantation. 5. Abdominal incisions. 6. CPR. 7. Pre-operative checklist. 8. Ambulatory surgery. 9. Surgical positions. 10. Robotic surgery. 11. Joint replacement surgery. 12. Tonsillectomy. 13. Vaginal hysterectomy. 14. Skin preparation. 15. Cataract surgery. 	10x5=50
ш	WRITE SHORT ANSWERS 16. Skin Grafting. 17. Angioplasty. 18. Burr hole.	10 X2=20

- 19. Intercoastal drainage.
- 20. Radiotherapy
- 21. Urologic endoscopy
- 22. Patient identification inside OT.
- 23. IV fluids
- 24. Patient draping.
- 25. C- arm

PARAMEDICAL BOARD, BANGALORE **SUPPLEMENTARY EXAMINATION FEBRUARY - 2018** II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN Medical Record Technology **Hospital Administration QP CODE** - 3142

Time : 3 Hours.

I. Long Essays Any Two.

- 1. What is Healthcare waste Management? Write a note on management of sharps.
- 2. What are the functions of hospitals in Healthcare? Write a note on dietary services provided.
- 3. Define Controlling. Write in detail the control techniques in management.

II. Write briefly on any TEN

4. Elements of Primary Health care

- 5. Preventive measures to control rodents in hospitals
- 6. Role of Hospital stores
- 7. Fire-safety in Hospitals
- 8. Transportation facilities in hospital
- 9. Incineration
- 10. Security services in hospitals
- 11. Planning of Intensive care unit
- 12. Role of Hospital Administrator
- 13. Organisation of Nursing Department
- 14. Organisation of Medical Records Department
- 15. Disaster preparedness

III. Write Short Answers

- 16. Paramedical worker
- 17. Injection Room
- 18. Purchasing Committee
- 19. Functions of Radiology Department
- 20. Health Inspector

5x4 = 20

2x10=20

10x5 = 50

Max. Marks:90.

PARAMEDICAL BOARD, BANGALORE SUPPLEMENTARY EXAMINATION FEBRUARY - 2018 II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN DIALYSIS TECHNOLOGY Renal Replacement Therapy Other Than Haemodialysis & Patient Teaching OP CODE - 3152

Time: 3 hrs

Max. Marks: 90

I. LONG ESSAYS - ANSWER ANY TWO

1) Describe anatomy of Peritoneal membrane. Discuss the three pore model of peritoneal transport and transport characteristics of peritoneum.

2) Discuss dialysis of a patient of methyl alcohol poisoning with hypotension and acidosis in the intensive care unit

3) Discuss 'Quality Of Life' of dialysis patients. Discuss psychiatric complications in maintenance hemodialysis patients

II. WRITE SHORT NOTES ON ANY TEN

- 4) Indications for dialysis with normal kidney functions
- 5) Residual renal function
- 6) Erythropoiesis Stimulating Agents
- 7) Cyclers in Peritoneal dialysis
- 8) Waste segregation in the dialysis unit
- 9) Plasma and other apheresis therapies
- 10) Hemo perfusion
- 11) Kt/V
- 12) Hemodialysis in a HIV patient
- 13) Universal precautions in the Hemodialysis unit
- 14) Difference between 'flux' and 'efficiency' in dialysers
- 15) Anticoagulation protocols in CRRT

III. WRITE SHORT ANSWERS

- 16) Tidal Peritoneal dialysis
- 17) Two drugs used to treat hyperparathyroidism
- 18) Non dialytic treatment of hyperkalemia
- 19) Veins used for AV fistula creation
- 20) Home requirements for Peritoneal dialysis
- 21) Body Mass Index
- 22) Bio impedance
- 23) Cardiac monitor use in the dialysis unit
- 24) Two replacement fluids
- 25) Newer peritoneal dialysis fluids

$10 \times 2 = 20$

atric

 $10 \times 5 = 50$

 $2 \times 10 = 20$

Time: 3hrs

I. Long essay — Answer any Two.

- Mention in detail the Out Patient Department (OPD) & In Patient Department (IPD) record keeping?
- 2) Write in detail about National programme for control of blindness.
- 3) Describe School Screening in detail.

II. Write short notes on any TEN.

- 4) Minot- surgical records maintenance.
- 5) Transportation of donor eyes.
- 6) Vitamin A deficiency.
- 7) Alphabetical Index.
- 8) Vocational training of blind.
- 9) Use of cycloplegics for refraction in children.
- 10) Preparation of eyepads.
- 11) What are the camp activities done in your hospital.
- 12) ICD 10.
- 13) How do you prevent common eye disease?
- 14) Differences between spherical and cylindrical lens .
- 15) How is a optometrist useful in the field of ophthalmology

III. Write short answers

- 16) 2 harts for distant vision charts
- 17) 2 preservation media for eyeball preservation.
- 18) Brief on consent format.
- 19) 2 uses of prisms in ophthalmology.
- 20) Mention 2 minor surgical procedures.
- 21) Emergency management of alkali injuries.
- 22) Indication of Dacryocystectomy (DCT).
- 23) Disease index.
- 24) Epilation.
- 25) Numerical index.

Max.Marks:90

 $10 \times 5 = 50$

 $10 x^2 = 20$

 $2 \times 10 = 20$

PARAMEDICAL BOARD, BANGALORE SUPPLEMENTARY EXAMINATION FEBRUARY - 2018 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 X 10 =10

5 X2 =10

1. Explain in detail about various components of removable partial dentures.

II WRITE SHORT NOTES 5 X 5=25

- 2. Adam's clasp
- 3. Pindex system
- 4. Full crown or complete veneer crown
- 5. Pontic designs
- 6. Porosities in casting

III. WRITE SHORT ANSWERS

- 7. Gingivally approaching clasp
- 8. Obturator
- 9. Labial bow
- 10.Ceramic furnace
- 11.Coffin spring

PARAMEDICAL BOARD, BANGALORE SUPPLEMENTARY EXAMINATION FEBRUARY - 2018 II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN DENTAL HYGIENE DENTAL HEALTH EDUCATION, SOCIAL & PUBLIC HEALTH & PREVENTIVE DENTISTRY QP CODE - 3182

lime: 1 1/2 hrs	Max Marks: 45
I. Long essay	1 x10=10
 Describe various mechanical plaque control measu Write short notes 	ures. 5x5=25
 Oral health in handicapped patients. Home care instructions. School water fluoridation. Prevention of dental caries. Simplified oral hygiene index. 	
III. Write short answers	2x5=10
 7. Gingival massage. 8. Thumb sucking habit. 9. Dentifrices. 10. Chemical plague control. 	

11. Audio visual Aids.

PARAMEDICAL BOARD, BANGALORE SUPPLEMENTARY EXAMINATION FEBRUARY - 2018 II YEAR DIPLOMA IN PHYSIOTHERAPY PHARMACOLOGY QP CODE - 3192

Time: 3 hrs

Max Marks: 90

I. LONG ESSAY - ANSWER ANY FOUR

4X15=60

- 1. Name any eight routes of drug administration giving one example for each. Mention three advantages and two disadvantages of any one route (10+3+2)
- 2. Name any eight general anaesthetics. Mention five advantages and five disadvantages of Halothane (5+5+5)
- 3. Name any eight anticholinergic drugs. Mention six uses and four adverse effects of Atropine (5+6+4)
- 4. Name five groups of antihypertensive drugs giving one example for each group. Write the mechanism of action, five uses and three adverse effects of any one (5+2+5+3)
- 5. Name any six aminoglycoside antibiotics. Write any six of their general properties. Mention three uses and three adverse effects of any one (3+6+3+3)

II. WRITE SHOT NOTES ON ANY FIVE

(4x5=20)

- 6. Succinylcholine
- 7. Bronchodilators
- 8. Fat soluble vitamins-deficiency states
- 9. Cardioselective beta blockers
- 10. Glucocorticoids therapeutic uses

III. WRITE SHORT ANSWERS

(5x2=10)

- 11. Insulin- two uses and two adverse effects
- 12. Mention two calcium preparations
- 13. Mention one drug used for treating myxoedema and Grave's disease
- 14. Mention two antiepileptic drugs
- 15. Mention the antidotes for poisoning due to
 - a) Paracetamol
 - b) Morphine

PARAMEDICAL BOARD, BANGALORE SUPPLEMENTARY EXAMINATION FEBRUARY - 2018 CERTIFICATE COURSE CHEMISTRY QP CODE 1102 hrs Max. Marks: 45

Time: 1. 1/2 hrs

I. LONG ESSAY-ANSWER ANY ONE

1) What is natural radioactivity and applications of radioisotopes?

2) Explain the preparation of Sulphuric acid by contact Process.

II. WRITE SHORT NOTES ON ANY FIVE

- 3) Preparation of methane.
- 4) Types of buffer solution.
- 5) Biochemical messengers.
- 6) Biological Importance of Nucleic acids.
- 7) Purines and Pyrimidine.
- 8) Half life period .
- 9) Aqua Regia.

III. WRITE SHORT ANSWERS

- 10) Molasses
- 11) Tyndal Effect.
- 12) Structure of Alanine and Glycine.
- 13) Uses of Iodine.
- 14) Oxidation & reduction.

1 x 10 =10

5x5=25

5 x 2 = 10

PARAMEDICAL BOARD, BANGALORE SUPPLEMENTARY EXAMINATION FEBRUARY - 2018 I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN MEDICAL LABORATORY TECHNOLOGY

TIME 3 HRS.

QP CODE — 2103 Subject: Biochemistry

I LONG ESSAY- ANSWER ANY TWO

1. Define carbohydrates. Classify them with suitable examples and add a note on its functions. (2+5+3 = 10)

- 2. Explain with diagram photoelectric colorimeter and its uses in laboratory. (7+2 = 10)
- 3. Minerals and Vitamins (5+5=10)

II. WRITE SHORT NOTES

- 4. Conjugate proteins
- 5. Titration
- 6. Explain equivalent weight and molecular weight with examples
- 7. Analytical balance
- 8. Hot air oven
- 9. Water bath
- 10. Functions of Minerals
- 11. Classify lipids with examples
- 12. Explain Normality and Molarity with examples
- 13. Isoenzymes

III WRITE SHORT ANSWERS

- 14. Two examples of strong Bases
- 15. Define pH. What is normal pH of urine
- 16. Sucrose.
- 17. Definition of Buffers
- 18. Pipette and auto pipette
- 19. Safety measures in Laboratory
- 20. Percent solution with example
- 21. Essential amino acids
- 22. Name 2 indicators
- 23. Primary standard

10X2=20

10 X 2=20

 $10 \times 5 = 50$

MAX. MARKS: 90.

PARAMEDICAL BOARD, BANGALORE SUPPLEMENTARY EXAMINATION FEBRUARY - 2018 I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN HEALTH INSPECTOR QP CODE — 2111 SUBJECT: PAPER I

Time 3 Hrs.

I. Long Essay – Answer any TWO

- 1. Enlist indicators of health and explain one of them in detail.
- 2. Write different types of families and explain the role of families in maintaining good health.
- 3. Explain the structure of heart with its function.

II. Short notes on any TEN.

- 4. Write the effects of alcohol on family.
- 5. Explain different food habits related to diseases.
- 6. Briefly explain dimensions of health.
- 7. What is icebergs phenomenon explains with examples.
- 8. Explain different risk factors for hypertension.
- 9. Explain spectrum of Health.
- 10. Explain various types of rehabilitation.
- 11. Mention different concepts of health. Explain any one of them.
- 12. Define Health and Write a note on Positive Health.
- 13. What is Physical Quality of Life Index
- 14. Write the differences between urban and rural community.
- 15. Define Disease Eradication. Explain with examples.

III. Write Short Answers.

- 16. Broken Family.
- 17. Acculturation.
- 18. Write the functions of Lungs.
- 19. Write two advantages of Joint Families.
- 20. What is an Epidemic. Give an example.
- 21. Write note on Medical Social worker.
- 22. What is Secondary prevention. Explain with an example.
- 23. What is Epidemiological Triad
- 24. Give two examples of Non-communicable Diseases.
- 25. Mention two risk factor for cancers.

2x10=20.

10x5=50.

Max. Marks: 90.

10x2=20.

PARAMEDICAL BOARD, BANGALORE SUPPLEMENTARY EXAMINATION FEBRUARY - 2018 I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN MEDICAL X-RAY TECHNOLOGY QP CODE — 2122 SUBJECT: ANATOMY

TIME : 1. 1/2 HRS

I Long Essay – answer any two

- 1. Name the parts of Central nerves system. Describe pituitary gland in detail.
- 2. Name the parts of Female Reproductive system. Describe Uterus in detail.
- 3. Name the parts of Excretory system. Describe kidney in detail.

II Short Notes – answer any three

- 4. Liver
- 5. Heart
- 6. Pharynx
- 7. Histology of muscle

III Short answers

- 8. Name types of cartilages.
- 9. Name endocrine glands.
- 10. Name parts of Alimentary system.
- 11. Name any two muscles of upper limb.
- 12. Name the parts of Humerus.

2x10=20

3x5=15

5x2=10

MAX MARKS: 45

PARAMEDICAL BOARD, BANGALORE **SUPPLEMENTARY EXAMINATION FEBRUARY - 2018** I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN **OT TECHNOLOGY**

TIME 3 HRS.	MAX.	MARKS: 90.
	RY (write in separate answer book) QP	
I LONG ESSAY- ANSWER		1x10=10
	lucose. Write normal fasting and post prand intenance of blood glucose level. $(3+2+5=3)$	
	nts of urine and how do we test the abnorm	al constituents of
urine. (5+5=10) II. WRITE SHORT NOTES	ON ANY TWO	2.45-10
		2x5=10
3. Urea and Creatinine Clear		
 4. Normal constituents of Uri 5. Formation and detoxificati 		
III. WRITE SHORT ANSWE		5X2=10
6. Common causes for metal	bolic acidosis	
7. Heat and acetic acid test		
8. Normal values of serum el	lectrolytes.	
9. Normal values of blood un	-	
10. Specific gravity of urine		
-	DGY (Write in separate answer book) Q	
I. ANSWER ANY ONE		1 x 10 =10
	<pre>systemic routes of drug administration giving Write four advantages and two disadvanta +2).</pre>	
2. Name any six sedative hy	pnotics. Mention four actions, four uses and	four adverse
effects of diazepam. (3+	·	
II. WRITE SHORT NOTES	S OF ANY TWO	2 x 5 =10
Name five types (techniqu	ies) of local anaesthesia. Write one use for e	each
4. Preanaesthetic medication		
5. Method of operation theat III. WRITE SHORT ANSW		F 2 - 10
		5 x 2 =10
6. Name two opioid analgesic	LS	
7. Name two antiseptics	antibiotico	
8. Name two broad spectrum		
9. Name two surface anaesth	r treating anaphylactic shock	
	OGY (Write in separate answer book) QI	P CODE – 2134
I. Answer any one		1X10=10
1. Classify bacteria and draw	a neat labelled diagram of bacterial cell,	
2. Define and classify steriliz	ation. Discuss in detail about flash sterilisati	ion.
II. Write short notes on	any two	2X5=10
3. Transmission of HIV infect	tion	
 4. management of blood spil 5. Surgical hand wash 	l	
I. Write short answers		5X2=10
6. Name two bacterial causir	ng post-operative infections	
7. Name two bacterial vaccin	ies,	
8. Name two contributions of	f Louis pasteur	
9. Name two fungi causing h	uman infections	
10 .Name two bacteria produ	ucing pigment.	

PARAMEDICAL BUARD, BANGAL	UKE
SUPPLEMENTARY EXAMINATION FEBRUAR	Y - 2018
I YEAR DIPLOMA IN / II YEAR CERTIFICAT	TE COURSE IN
MEDICAL RECORD TECHNOLOGY	
	MAX. MARKS: 90.
SECTION – A Anatomy (Write in separate answer book)	-
I. Long Essay – answer any one	1x10=10
 Name the parts of female reproductive system. Describe uter Describe Heart in detail. 	us in detail.
II. Short Notes – answer any two	2x5=10
3. Pancreas	
4. Urinary bladder	
5. Thyroid gland	
III. Short answers	5x2=10
6. Name any four arteries of upper limb.	
7. Neat labelled diagram of mitochondria.	
8. Name any two bones of lower limb.	
9. Name any two cranial nerves.	
10. Name any two muscles of upper limb	
Section B — Physiology (Write in separate answer book)	-
I. LONG QUESTION :	10X 1 = 10
1) Explain in detail the steps in formation of R.B.Cs (Erythropo	,
II. SHORT NOTES :	5X2 = 10
2) Hormones and disorders of posterior pituitary	
3) Formation of Urine	2 VF - 10
III. SHORT ANSWERS :	2 X5 = 10
4) Bile juice	
5) Muscles of inspiration	
6) Normal values of Blood pressure	
7) Vital capacity	
8) Nephron	

PARAMEDICAL BOARD BANGALORE

SECTION -C, PATHOLOGY& MICROBIOLOGY (Write in separate answer book) 2144 I. Long Essay (Answer any one) 1 x 10= 10

1. What is pathology? Write briefly about the different sections in pathology department

2x 5 = 10

5x 2 = 10

2. Draw a neat labelled diagram of light microscope. Write a note on tuberculosis

II. Short Essay on any two

- 3. Note on different investigations conducted in microbiology
- 4. Write difference between gram positive and gram negative bacteria
- 5. Write a note on maintenance of medical records in pathology

III. Short Answers

- 6. Name 2 chemical tests for urine analysis
- 7. Why is Widal test done?
- 8. Ziehl Nelson stain- uses
- 9. Name 2 gram negative bacteria
- 10. Name any 2 investigations done in pathology

PARAMEDICAL BOARD, BANGALORE SUPPLEMENTARY EXAMINATION FEBRUARY - 2018 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

1. a) Name six abnormal constituents of urine. b) How to we test those abnormal constituents in the Laboratory? (3+7=10)

2. Explain the formation of Urea and its excretion urea under following

- a) Site of urea synthesis
- b) Sources of nitrogen in Urea
- c) Urea cycle
- d) Normal blood urea level

II. WRITE SHORT NOTES ON ANY FIVE

- 3. Define Acid, Bases and Buffer give two examples for each
- 4. Analysis of Normal Urine
- 5. Role of Kidney in maintaining the pH of Blood.
- 6. Write briefly on digestion and absorption of carbohydrates
- 7. Chromatographic techniques and its application in dialysis

8. How do we collect the urine for different tests? Name the preservatives used in storage of urine

III. WRITE SHORT ANSWERS

- 9. Name electrolytes and their normal values
- 10. Name two disaccharides.
- 11. Write two differences between plasma and serum.
- 12. Name amino acids involved in synthesis of creatinine.
- 13. Benedict's test.

Long essay

I.

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

1. Draw a neat labelled diagram of bacterial cell. Add a note on flagella 2. Discuss in detail about laboratory diagnosis of enteric fever II. Write short notes on any five 5*5=25 3. Bio-medical waste mananment 4. Autoclave 5. Gaseous disinfection 6. Passive immunity 7. Robert Koch 8. Cryptococcus III. Write short answers 5*2=10 9. Modes of transmission of HIV 10. Name two commensal bacteria 11. Name two Gram negative bacteria 12. Sterilization controls 13. Name two organism causing hospital acquired infection ******

10X1=10

5x5=25

5X2=10

1*10=10

PARAMEDICAL BOARD, BANGALORE **SUPPLEMENTARY EXAMINATION FEBRUARY - 2018** I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN

Ophthalmic Technology O.P Code : 2162

Time : 3 Hrs.

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

I. LONG ESSAY (Answer any two)

1) Define Conjunctivitis. Mention types of Conjunctivitis, write about clinical features and treatment.(1+3+3+3)

- 2) Define Cataract. Types of Cataract. Diagnosis and treatment of Cataract.(1+3+3+3)
- 3) Define Amblyopia. Types of Amblyopia. Write a note on patching therapy.(2+4+4)

II. Short Essay

 $10 \times 5 = 50$

10X2 = 20

- 4) Vitamin A deficiency.
- 5) Types of Tonometry. Explain applications of Tonometry.
- 6) Clinical features of Ocular trauma.
- 7) Chronic Dacrocystitis,
- 8) Cycloplegics in refraction testing.
- 9) Post operative medications after cataract surgery.
- 10) First Aid in chemical injury of the eye.
- 11) Spring catarrh.
- 12) Oral glycerol.
- 13) Classification of diabetic retinopathy.
- 14) Causes of watering of eye.
- 15) Clinical features of acute Iridocyclitis.

III. Write Short Answers

- 16) Name two antiglaucoma drugs.
- 17) Dry eye symptoms.
- 18) Signs of Acute Conjunctivitis.
- 19) Name two anti-glaucoma surgery.
- 20) Name two antibiotics used in ophthalmology.
- 21) Name two steroids used in ophthalmology.
- 22) Name two antihistaminic drugs uses in allergic Cunjunctivits.
- 23) Treatment of Blepharitis.
- 24) Two signs of Keratoconus.
- 25) Two causes of red eye.

Max. Marks: 90

 $2 \times 10 = 20$

PARAMEDICAL BOARD, BANGALORE SUPPLEMENTARY EXAMINATION FEBRUARY - 2018 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. Describe the anatomy of permanent maxillary first molar. 2. Denture supporting and limiting areas of edentulous arches. 	1 X 10 = 10
II. WRITE SHORT NOTES ON ANY FIVE	5 X 5 = 25
3. Muscles of mastication	
4. Posterior palatal seal area	
5. Anatomy of mandibular permanent central incisor	
6. Temporo-mandibular joint	
7. Compensating curves	
8. Overjet and overbite	
9. Developmental grooves	
III. WRITE SHORT ANSWERS	5 X 2 = 10
10. Incisive papilla	
11. Fovea palatinae	
12. Maxillary tuberosity	

- 13. Labial frenum
- 14. Cusp of carabelli

PARAMEDICAL BOARD, BANGALORE SUPPLEMENTARY EXAMINATION FEBRUARY - 2018 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. Define necrosis. Discuss types of necrosis with examples
- 2. Define Neoplasm. Write differences between benign and malignant tumors

II. Short Essay on any four

- 3. Pyogenic granuloma
- 4. Classify odontogenic cyst
- 5. Classify vitamins
- 6. Process of wound healing
- 7. Oral leukoplakia
- 8. Write briefly about Cellular events of inflammation

III. Short Answers

- 9. Name special stain for candida
- 10. Define attrition and abrasion
- 11. Name methods of sterilization

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

I. Write short answers

5 x 2 = 10

- 1. Name two NSAIDs
- 2. Name two broad spectrum penicillins
- 3. Name two Abrasives
- 4. Name two local anaesthetics

4x 5 = 20 Marks

3x 2 = 6 Marks

1 x 9= 9 Marks

PARAMEDICAL BOARD, BANGALORE SUPPLEMENTARY EXAMINATION FEBRUARY - 2018 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

1. Discuss the pathogenesis and lab diagnosis of cholera.

2. Enumerate the infections in ICU.Discuss in detail disinfection of ICU in the hospitals

3. Draw a neat labelled diagram of HIV virus. Add a note on its transmission.

II. Write short notes on any ten

- 4. Lab diagnosis of candida
- 5. WIDAL test
- 6. Lab diagnosis of malaria
- 7. Biomedical waste management
- 8. Gram stain
- 9. Hepatitis B virus
- 10. Standard precautions in microbiology.
- 11. Anaphylaxis
- 12. Methicillin-resistant Staphylococcus aureus (MRSA)
- 13. Antibiotic sensitivity testing
- 14. Lab diagnosis of meningitis
- 15. Characteristics of enterobacteriacae
- 16. Anti-streptolysin O (ASLO) test

III. Write short answers

- 17. Name two catalase positive organisms
- 18. Name two bacteria producing pigment
- 19. Name two organisms causing dysentery
- 20. Name two viral vaccines
- 21. Name two bacteria causing nosocomial infections
- 22. Name two sexually transmitted infections
- 23. Name two ova and two cysts found in stool
- 24. Name two uses of ELISA tests
- 25. Name two uses of autoclave
- 26. Name two soil transmitted helminths

Max. Marks: 90

2*10=20

10*5=50

2*10 = 20

PARAMEDICAL BOARD, BANGALORE SUPPLEMENTARY EXAMINATION FEBRUARY - 2018 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
 - 1. Discuss in detail the benefits under Employees State Insurance (ESI) Act.
 - 2. What are the risk factors for tuberculosis. Discuss RNTCP role.

3. Define Primary Health Care. Discuss the Principles of Primary Health Care with an example each.

II. Write Short notes on any TEN.

- 4. Services provided at a Sub-centre
- 5. Advantages of Rural Development
- 6. Job responsibilities of Female Health Assistant.
- 7. Child Abuse and its prevention.
- 8. Sanitation Barrier.
- 9. Audio-visual Aid .
- 10. Services provided under Adolescent Health care.
- 11. Antihelminthic Drugs.
- 12. Medical Termination Of Pregnancy (MTP) Act.
- 13. Job responsibilities of Anganwadi Worker.
- 14. Mental Health Services in the Community.
- 15. Sources of vitamin C.

III. Write Short Answers.

- 16. Name any 2 Voluntary Health Agencies.
- 17. Enumerate the basic resources required to meet the Health needs.
- 18. Culex mosquito.
- 19. Definition of health.
- 20. What are the main components of the communication process.
- 21. Health problems in our country Any 2
- 22. Functions of Food and Agricultural Organisation.
- 23. Health Team Concept.
- 24. Which are the various Health Insurance Schemes.
- 25. Common health problems of the old age.

2x10=20.

10x5=50.

10x2=20

PARAMEDICAL BOARD, BANGALORE SUPPLEMENTARY EXAMINATION FEBRUARY - 2018 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 2 x 10 = 20

 $10 \times 5 = 50$

- I. LONG ESSAY ANSWER ANY TWO
 - 1) Basic principle of computed tomography? What is Hounsefield unit?
 - 2) Basic principles of Ultrasound? Write about sound waves?
 - 3) Discuss about gamma camera.

II. WRITE SHORT NOTES ON ANY TEN

- 4) Double contrast medium.
- 5) Properties of Radiofrequency pulse
- 6) T tube cholangiogram.
- 7) Angiography.
- 8) Contrast imaging.
- 9) Preparation of patient in MRI Scan.
- 10) Safety considerations in radiation dose.
- 11) Fluroscopy.
- 12) Sonomammography.
- 13) T1 weighted imaging.

III. WRITE SHORT ANSWERS

- 14) Pixel.
- 15) Bowel preparation.
- 16) Pre-Conception and Pre-Natal Diagnostic Techniques (PNDT) act.
- 17) Ultrasound transducer.
- 18) Contrast.
- 19) Voxel.
- 20) Pitch.
- 21) CT guided biopsy.
- 22) Artefact.
- 23) Ultrasound guided aspiration.

$10 \times 2 = 20$

PARAMEDICAL BOARD, BANGALORE SUPPLEMENTARY EXAMINATION FEBRUARY - 2018 II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN Medical Record Technology Computer Sciences QP CODE - 3143

Time: 1.30 Hours.

I. LONG ESSAE -ANWER ANY ONE

1. Define Computer and write the uses of computers in Medical Records Department?

2. Describe the various input and output devices of a computer.

II. WRITE SHORT NOTES ANY FOUR

- 3) Write different types of computer
- 4) Storage devices
- 5) Difference between laser printer & dot matrix printer
- 6) Application of computer
- 7) Hard disk
- 8) Disadvantages of computer

III. WRITE SHORT ANSWERS

- 9) Pen drive
- 10) PPT
- 11) Key board
- 12) Monitor
- 13) Laptop

Max. Marks: 40

1X10=10

4X5 = 20

5X2=10

PARAMEDICAL BOARD, BANGALORE

SUPPLEMENTARY EXAMINATION FEBRUARY - 2018

II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN

DENTAL HYGIENE

Operating room Technique, Chair side Assts. & Dental Materials, Ethics & Jurisprudence

QP CODE - 3183

Time: 1 '1/2 hrs

I. Long essay

Max Marks: 45

5x5 = 25

1. Describe in detail various sterilization methods and care of dental instruments.

II. Write short notes

- 2. Ethics in dental practice.
- 3. Restorative materials.
- 4. Appointment and recall system.
- 5. Dental Council of India.
- 6. Malpractice.

III. Write short answers

- 7. Interdental cleaning aids.
- 8. Scalers and curettes.
- 9. Basic knowledge of photography.
- 10. Storage of dental instruments.
- 11. Instructions to patients and recall.

2x5 =10

PARAMEDICAL BOARD, BANGALORE SUPPLEMENTARY EXAMINATION FEBRUARY - 2018 CERTIFICATE COURSE BIOLOGY OP CODE 1103

Time: 1. ½ hrs

I. LONG ESSAY- ANSWER ANY ONE

1. Define cell division. Write in detail about meiosis.

2. Draw a neat labeled diagram of the nephron and describe the formation of urine.

II. WRITE SHORT NOTES ON ANY FIVE

- 3. Difference between DNA & RNA.
- 4. Define Enzymes. How Enzymes acts.
- 5. Explain kerb's cycle .
- 6. Epithelial tissue.
- 7. Blood grouping and Rh typing.
- 8. Chromosomes.
- 9. Fertilization.

III. WRITE SHORT ANSWERS

- 10. Heart chamber
- 11. Name two viruses.
- 12. Ribosomes
- 13. Pacemaker.
- 14. Implantation.
- 15. Haemoglobin.

Max. Marks: 45 1x10= 10

5X5 = 25

5x2=10

PARAMEDICAL BOARD, BANGALORE SUPPLEMENTARY EXAMINATION FEBRUARY - 2018 I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN Medical Laboratory Technology QP CODE - 2104 Subject: Pathology

Time 3 Hrs.

I. LONG ESSAY : ANSWER ANY TWO :

1. Write the steps in tissue processing in histopathology. Write a note on embedding technique.

2. Write the stains used in cytology. Write in detail about pap staining procedure

3. Write the Preparation of leishmans stain & staining of peripheral smear. Mention two features of ideal smear.

II. SHORT ESSAY : ANSWER ANY TEN:

- 4. Benedicts test .
- 5. Total WBC Count.
- 6. Blood indices.
- 7. Reticulocyte count.
- 8. Erythrocyte Sedimentation Rate (ESR).
- 9. Decalcification in histopathology.
- 10. Bleeding time and clotting time.
- 11. Hemoglobin estimation methods .
- 12. Dehydrating agents used in histopathology.
- 13. Compound microscope.
- 14. Physical examination of urine
- 15. Quality control in Hematology

III. SHORT Answers

- 16. Poikilocytes.
- 17. Draw diagram of eosinophil & label.
- 18. Name two clearing agents.
- 19. Two uses of formalin.
- 20. Name two crystals in urine.
- 21. Two methods of haemoglobin estimation.
- 22. Expand DPX and write one use.
- 23. Name two hemoparasites
- 24. Mention 2 types of microtome
- 25. Uses of Neubauer's chamber.

Max. Marks: 90. (2x10=20)

(10x5=50)

(10x2=20)

PARAMEDICAL BOARD, BANGALORE SUPPLEMENTARY EXAMINATION FEBRUARY - 2018 I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN HEALTH INSPECTOR QP CODE - 2112 Subject: Paper II

Time 3 Hrs.

I. Long Essay — Answer any TWO.

- 1. What is food adulteration? Give examples for food adulteration. Add a note on prevention of Food Adulteration Act
- 2. Enlist the intestinal parasites of human beings. Discuss life cycle of Hook worm
- 3. Enlist the methods of solid waste disposal. Discuss different methods of composting

Write short notes on any TEN

- 4. Effects of noise pollution on humans
- 5. Balanced diet
- 6. Itch mite

II.

- 7. Food fortification
- 8. Slow sand filters
- 9. Rickets
- 10. Water borne diseases
- 11. Life cycle of filarial parasite
- 12. Pasteurization of milk
- 13. Global warming
- 14. Mid day meal program
- 15. Sanitation barrier

III. Write short answers.

- 16. Name two pulses and two cereals
- 17. Write two symptoms of Vitamin A deficiency
- 18. Write two symptoms of Vitamin B12 deficiency
- 19. Nutritional supplementation in ICDS program
- 20. Bleaching powder
- 21. Shallow wells
- 22. Sewage farming
- 23. Marasmus
- 24. Food handlers
- 25. Super chlorination

Max. Marks: 90.

10x2 =20

10x5-50

2x10=20

PARAMEDICAL BOARD, BANGALORE **SUPPLEMENTARY EXAMINATION FEBRUARY - 2018** I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN Medical X-Ray Technology **QP CODE** – 2123 Subject: Physiology

Time : 1. 1/2 Hrs

Long essay - Answer any one. I.

1) Define blood pressure (BP). Give normal range. Describe factors determining BP.

2) Describe different lung volumes and capacities.

II. Short essay - Answer any five

- 3) Name various types of family planning methods.
- 4) Explain the functions of cerebrospinal fluid (C5F).
- 5) What is glomerular filtration rate (GFR)? Write the factors regulating it.
- 6) Explain erythropoesis.
- 7) Write the role of surfactant in breathing.
- 8) Write functions of liver.
- 9) Draw a neat labeled diagram of electrocardiogram (ECG).

III. Short Answers

- 10) Name the hormones secreted by posterior pituitary.
- 11) Name receptors for hearing.
- 12) Write functions of hydrochloric acid (HCL) in stomach.
- 13) Name two muscle proteins.
- 14) Name the plasma proteins.

5X2=10

Max marks: 45

1X10 = 10

5X5 = 25

PARAMEDICAL BOARD, BANGALORE SUPPLEMENTARY EXAMINATION FEBRUARY - 2018 I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN OT TECHNOLOGY

Time 3 Hrs.Max. Marks: 90.SECTION – A Anatomy (Write in separate answer book)QP CODE – 2135I. LONG ESSAYANSWER ANY ONE1 x 10 = 101. Name the parts of Male Reproductive system. Describe Testis in detail.2. Name the parts of Central Nervous system. Describe spinal cord.

II. WRITE SHORT NOTES ON ANY FIVE $5 \times 5 = 25$

- 3. Oesophagus
- 4. Uterus
- 5. Liver
- 6. Transitional Epithelium
- 7. Kidney
- 8. Pituitary gland

III. WRITE SHORT ANSWERS

- 9. Name the parts of tibia bone.
- 10. Name 3 coverings of Brain.
- 11. Name 2 arteries of upper limb.
- 12. Name the parts of small intestine.
- 13. Name the parts of eyeball.

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

I. LONG ESSAY

$1 \times 10 = 10$

1) Draw a neat labeled diagram of Neuron and write about functions of Autonomic Nervous system.

II. WRITE SHORT NOTES ON ANY FIVE $5 \times 5 = 25$

- 2) Heart sounds
- 3) Bile Juice
- 4) Regulation of body temperature
- 5) Maintenance of Equilibrium
- 6) Spleen and their functions

III. WRITE SHORT ANSWERS

- 7) Parts of conducting system of heart
- 8) Portal circulation
- 9) Constituents of Gastric juice
- 10) Micturition
- 11) Name any 2 types of Muscle

5 x 2 =10

5 x 2 = 10

PARAMEDICAL BOARD, BANGALORE SUPPLEMENTARY EXAMINATION FEBRUARY - 2018 I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN MEDICAL RECORD TECHNOLOGY Subject: Hospital Statistics & Biostatistics QP CODE - 2145

Time 3 Hrs.

I.

Long Essays. Answer any THREE

1. Draw Standard Normal Curve. Explain the characteristics and uses in Biostatistics.

2. What are the measures of Dispersion? Write a brief note on Standard Deviation and its uses.

3. What is Sampling. Enumerate various types. Add a note on Cluster Sampling.

4. What is Data. Write briefly on Tabulation and Presentation of Data.

II. Write briefly on any TEN.

10x5=50

3x10=30

Max. Marks: 90.

- 5. Alpha-Index Cards
- 6. Computerisation of Hospital Data
- 7. Bed Turnover Ratio
- 8. In-patient Statistics
- 9. Notification of Births and Deaths
- 10. Uses of Hospital Statistics
- 11. Queing Theory
- 12. Admission and Discharge analysis
- 13. Secondary Data
- 14. Organisation of Medical Records Department
- 15. Role of Statistician in Medical Records.
- 16. Record Linkage

III. Write briefly on any Five.

- 17. Uses of Boistatistics
- 18. Name two common mental health conditions
- 19. Histogram
- 20. t-test
- 21. Medical Audit
- 22. Correlation

5x2=10

	SUPPLEMENTARY EXAMINATION FEBRU I YEAR DIPLOMA IN / II YEAR CERTIFICAT	
	DIALYSIS TECHNOLOGY Time 3 Hrs.	Max. Marks: 90.
<u>SE</u>	<u> CTION – A Anatomy (Write in separate answer b</u>	
I.	LONG ESSAY- ANSWER ANY ONE	$1 \times 10 = 10$
	Name the parts of Alimentary system. Describe liv	
∠. II.	Name the parts of Respiratory system. Describe r WRITE SHORT NOTES ON ANY FIVE	5 x 5 = 25
	Histology of cartilage	J X J = 25
	Uterus	
	Thyroid gland	
	Kidney	
	Spleen	
	Spinal cord	
III.	WRITE SHORT ANSWERS	5 x 2 = 10
9.	Name the parts of central nerves system.	
10	. Name any two muscles of lower limb.	
11	. Name bones forming the shoulder Joint.	
	. Name two endocrine gland.	
	. Name any two veins of the body.	
<u>SEC</u> I.	<u>TION – B Physiology (Write in separate answer</u> Long essay - Answer any one.	<u>воок)</u> QP CODE — 21 1X10 =10
	Explain the Conducting system of the heart in de	
2)	Define.G.F.R and explain the factors affecting gl ce(GFR)	
II.	Short essay - Answer any five	5X5=25
3)	Functions of the Hypothalamus	
4)	Functions of saliva	
5)	Liver functions	
6)	Blood groups	
7)	Insulin	
	Spermatogenesis	
III.	Short Answers	5X2=10
,	Pulse	
) Plasma proteins	
) Erythrocyte Sedimentation Rate (<i>ESR</i>).	
) Normal values of a) Sodium b) Potassium	
13) Normal Hemoglobin value range in Male and Fer **********	nale.

PARAMEDICAL BOARD, BANGALORE **SUPPLEMENTARY EXAMINATION FEBRUARY - 2018** I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN **DENTAL MECHANICS**

Time : 1.1/2 Hrs. Section- A, General Biochemistry (Write in separate answer book) QP code - 2185

Long Question - Answer any ONE I.

1. Define Lipids. Classify them with suitable examples. Add a note on its functions in our body. (2+5+3=10)

2. Balanced diet and malnutrition disorders. (5+5=10)

II. Write short notes on any THREE

- 3. Functions of calcium.
- 4. Fluorosis
- 5. Special diet in maxillofacial injury cases
- 6. Composition of saliva

Section- B, Radiology (Write in separate answer book) **QP code – 2186**

I. Write short notes:

- 1. Fundamental and elementary Principles of Dental Radiology.
- 2. Processing and Fixing solutions.
- 3. Hazards of Radiation and protection against it.
- 4. OPG (Orthopantomogram).

3x5 = 15

4x5 = 20

 $1 \times 10 = 10$

Max. Marks: 45

PARAMEDICAL BOARD, BANGALORE SUPPLEMENTARY EXAMINATION FEBRUARY – 2018 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 FOUR QUESTIONS

4X5= 20

- 1. What is coding and explain design of ICD-10
- 2. Explain the Dagger and Asterisk system
- 3. Write the arrangement of the Alphabetical Index
- 4. Explain the structure of codes
- 5. Explain the main basic steps of coding

PARAMEDICAL BOARD, BANGALORE SUPPLEMENTARY EXAMINATION FEBRUARY – 2018 Common paper for all First Year Certificate courses ENGLISH QP CODE -1104

Time 1.1/2 Hrs. Max. Mar			ks: 45.				
1.	WRITE AN 1) My favou 2) First Aid	I ESSAY ON ANY (rite game	ONE O	F THE FOL	LOWING	15)	(1=15
11.	ANSWER	etter to your Parent	ts aski	ng them to	come to your	_	(1=10 ge day
111.	to attend	etter to your Princip your brother marr E OPPOSITE GEN 6) Gentleman	riage DER O	F		5X1	
IV.		E OPPOSITE OF T 11) Hot	-			5X1 14)	-
V.	WRITE TH 15) In front 16) Please 17) Moreove 18) Because 19) As soon	er	ING T	HE FOLLO	WING	5X1	=5
VI.	20) The tab 21) I like ye 22) He is ri 23) Beware	HE BLANKS ole is ou better chdo Rama	he is he is	nim s not happy	/	5X1	=5

PARAMEDICAL BOARD, BANGALORE SUPPLEMENTARY EXAMINATION FEBRUARY - 2018 I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN Medical Laboratory Technology QP CODE — 2105 Subject: Microbiology

Time 3 Hrs.

I. Long assay (answer any two)

- 1. Draw a neat labelled diagram of bacterial cell. Describe in detail about cell wall
- 2. What are culture medias, classify them. Write in detail on ingredients, preparation, storage and uses of blood agar.
- 3. What is sterilization, classify different types of sterilization. Write in detail about Hot air oven.

II. Write short notes (any ten)

 $10 \times 5 = 50$

Max. Marks: 90.

 $2 \times 10 = 20$

- 4. Louis Pasteur
- 5. Active immunity
- 6. Autoclave
- 7. Antibody
- 8. Robertson cooked meat media
- 9. Bacterial Flagella
- 10. Grams stain
- 11. Handling and care of Microscope
- 12. Washing of Glass wares
- 13. Sources of infection
- 14. Bacterial growth curve
- 15. Collection of blood sample for blood culture

III. Write short answers

- 16. Name two chemical disinfectants
- 17. Inspissation
- 18. Name two transport media
- 19. Name two Gram positive cocci
- 20. How do you Demonstrate bacterial capsule
- 21. Name 2 examples for Cold sterilization
- 22. Name two catalase positive organisms
- 23. Name two killed vaccines
- 24. Biological controls for sterilization
- 25. Labelled diagram of bacterial spore

$10 \times 2 = 20$

PARAMEDICAL BOARD, BANGALORE SUPPLEMENTARY EXAMINATION FEBRUARY - 2018 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 epidemic, enumerate the steps in the investigation of epidemic.

 Describe the life cycle of Aedes mosquito. What are the disease transmitted by Aedes mosquito. How do you control breeding of Aedes mosquito

3. How does Tuberculosis spread? What preventive measures do you recommend in a house with a small child of 3 years?

II. Short Notes on any TEN.

10x5=50.

- 4. Medical Officer in a Primary Health Center (PHC)
- 5. Epidemiological Triad
- 6. Role of Health Inspector
- 7. Infant Mortality Rate
- 8. Low Birth Weight
- 9. Pulse polio programme
- 10. Reservoir of infection
- 11. Cold chain system in Primary Health Center.
- 12. Universal Health Coverage
- 13. Itch mite
- 14. First Aid for a cut on finger
- 15. Mean or average

III. Write Short Answers.

16. Pie Chart

17. Isolation.

- 18. Risk factors for Cancers
- 19. Death Registration
- 20. BCG Vaccine
- 21. International Red Cross
- 22. World Health Day
- 23. Blood Bank Visit
- 24. Live vaccine
- 25. Air Pollution

2x10=20.

PARAMEDICAL BOARD, BANGALORE SUPPLEMENTARY EXAMINATION FEBRUARY - 2018 I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN Medical X-Ray Technology QP CODE - 2124 Subject: Pathology

Time : 1. 1/2 Hrs

I. LONG ESSAY: Answer any one:

1. Define necrosis. Describe different type of necrosis with examples.

2. Define infarction. Write the risk factors, morphology and complications of myocardial infarction.

II. SHORT ESSAY: Answer any Five:

- 3. Kwashiorkor
- 4. Thrombosis
- 5. Pleural effusion
- 6. Thyrotoxicosis
- 7. Fibroadenoma
- 8. Fatty liver
- 9. Hydronephrosis

III. SHORT NOTES:

- 10. Write any 2 Cardinal signs of inflammation
- 11. Name 2 causes for liver cirrhosis
- 12. Write two differences between transudate and exudate
- 13. Name 2 causes for cell injury.
- 14. Give 2 examples of hyperplasia

(5x5=25)

(1x10=10)

Max marks: 45

(5x2=10)