PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
II Year D.P.T
PATHOLOGY
QP CODE - 3191

Time: 3 hrs   **Max. Marks: 90**

I. Long Essays – Answer any THREE   **3 x 10 =30**

1) Define and classify inflammation; write in detail on repair
2) Define immunity. Write about hypersensitivity reactions
3) Define neoplasia; write the differences between benign and malignant neoplasms
4) Describe atherosclerosis; write aetiopathogenesis of atherosclerosis

II. Write short notes on any TWELVE   **12 x 5 =60**

5) Dysplasia
6) Chemical injury
7) Vitamin C deficiency
8) Renal calculi
9) Osteomyelitis
10) Peripheral neuropathy
11) Thrombocytopenia
12) Aneurysm
13) Pneumonia
14) Glomerulonephritis
15) Meningitis
16) Myasthenia gravis
17) Metastasis

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
II Year Diploma in Ophthalmic Technology/ III Year Certificate course in Ophthalmic Technology
PAPER – I
QP CODE – 3161

Time: 3 hrs   **Max. Marks: 90**

I. Long Essay - Answer any TWO   **2 x 10 = 20**
1) Describe the preparation of trolley for dacryocystorhinostomy (DCR surgery)
2) Describe the postoperative care of a cataract surgery patient
3) Describe the steps of chalazion surgery

II. Write short notes on any TEN   **10 x 5 = 50**
4) Methods of sterilization of Schiotz tonometer
5) Post operative endophthalmitis
6) Biometry
7) Trial set
8) Compare RPG lenses with soft lenses
9) Importance of examination of pupil
10) Direct ophthalmoscope
11) Lacrimal syringing
12) Methods of removal of a corneal foreign body
13) Various methods of drug administration in eye diseases
14) Various suture materials used in ophthalmic surgery
15) Post-mydriatic test (PMT)

III. Write short answers   **10 x 2 =20**
16) Preparation of sterile ocular bandage
17) Causes of childhood blindness
18) Mention any 4 ophthalmic emergencies
19) Stenopic slit
20) Fogging test
21) Jackson's cross cylinder
22) Uses of A-scan and B-scan
23) Methods of removal of misdirected cilia
24) Administration of mannitol
25) Protective glasses

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
II Year Diploma in Medical Laboratory Technology/III Year Certificate course in Medical Laboratory Technology
BIOCHEMISTRY
QP CODE- 3101

Time: 3 hrs   **Max. Marks: 90**

I. LONG ESSAY – ANSWER ANY TWO   **2 x 10=20**

1) Define glycolysis; write the reactions, energetic and regulation of glycolysis
2) What is electrophoresis? Write the principle, types and applications of electrophoresis in clinical biochemistry
3) Write the reactions, importance and metabolic disorders of the urea cycle

II. WRITE SHORT NOTES ON ANY TEN   **10 x 5 =50**

4) Digestion and absorption of lipids
5) Cardiac profile tests
6) Liver function tests
7) Principles of RIA
8) External quality control
9) Batch analyzers
10) Synthesis of creatinine
11) Glycogenesis
12) Ketogenesis
13) Blood glucose regulation
14) Autoanalysers
15) Reference range

III. WRITE SHORT ANSWERS   **10 x 2 = 20**

16) Write the abnormal constituents of urine
17) NPN substances in urine
18) Reagent racks
19) Constituents of gastric juice
20) Mention the normal serum levels of urea and creatinine
21) Clinical importance of CPK
22) Name the different methods of estimation of blood urea
23) Function of proteins
24) Name the bile salts and the bile pigments
25) Physical examination of urine

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
II Year Diploma in Health Inspector/ III Year Certificate course in Health Inspector
PAPER – I
QP CODE – 3111

Time: 3 hrs   **Max. Marks: 90**

I. Long Essay - Answer any two   **2 x 10 = 20**
1) Enumerate National Health Programs. Describe the National Immunization Programme in detail
2) Enumerate the vector borne diseases in India. Describe the national programme on malaria
3) Define primary health care. Write the elements and principles of primary health care

II. Write short notes on any ten   **10 x 5 = 50**
4) Vision 2020
5) Prevention of Diabetes mellitus
6) Complications of hypertension
7) Post exposure prophylaxis for rabies
8) Various modes of transmission of the AIDS virus
9) Risk factors for non communicable diseases
10) Rule of halves in hypertension
11) Primary factors in accidents
12) Investigation of food poisoning
13) Pulse polio programme
14) Body mass index
15) BCG vaccine

III. Write short answers   **10 x 2 =20**
16) Pandemic
17) Rehabilitation in Leprosy
18) Tracking of blood pressure
19) Define a case of tuberculosis
20) Name any 4 water borne diseases
21) Vaccine carrier
22) Epidemiological triad
23) ORS
24) Enumerate viral hepatitis transmitted through blood
25) Notifiable diseases.

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
II Year Diploma in Medical X- Ray Technology/ III Year Certificate course in Medical X- Ray Technology
RADIOGRAPHY INCLUDING RADIOLOGY PHYSICS , (O.S) R-I

QP CODE – 1001

Time: 3 hrs   **Max. Marks: 90**

I. LONG ESSAY - ANSWER ANY TWO   **2 x 10 = 20**

1) Xray properties
2) Electric circuits and their principles
3) Radiation safety

II. WRITE SHORT NOTES ON ANY TEN   **10 x 5 = 50**

4) CR and DR
5) Replenishers
6) Transformers
7) T tube cholangiogram
8) Semiconductor
9) Tube rating
10) Scannogram
11) Lead aprons
12) Ankle joint
13) Half value layer
14) MMR
15) Uses of CT scanning

III. WRITE SHORT ANSWERS   **10 x 2 =20**

16) Grid ratio
17) Expand MRI, CT and DSA
18) Views for C2 vertebra
19) Constituents for developer
20) Indications for HSG
21) Name the carpal bones
22) Line focus principle
23) Classify CT generation
24) Views for shoulder
25) Cathode and anode

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
II Year Diploma in Medical X- Ray Technology/ III Year Certificate course in Medical X- Ray Technology
RADIOGRAPHY INCLUDING RADIOLOGY PHYSICS, (N.S) R-I
QP CODE – 3121

Time: 3 hrs   **Max. Marks: 90**

I. LONG ESSAY - ANSWER ANY TWO   **2 x 10 = 20**

1) Discuss the factors affecting radiographic films
2) What is electromagnetic radiation? Mention the different types of rays on the electromagnetic spectrum; add a note on the properties of x-rays.
3) Mention the different components of a conventional x-ray machine and enumerate the function of each component

II. WRITE SHORT NOTES ON ANY TEN   **10 x 5 = 50**

4) Half life
5) Compton scattering
6) Film hangers
7) Safe light
8) PACS
9) Optic foramen view
10) Mass miniature radiography
11) Cones
12) Film badge
13) Stationary grid
14) Structure of an atom
15) Dark room

III. WRITE SHORT ANSWERS   **10 x 2 =20**

16) Film fogging
17) Pass box
18) Half value layer
19) Milli sievert
20) Single emulsion film
21) Barium sulphate
22) Abdominal binder
23) Silver halide crystals
24) Fluorescence
25) Film artefacts

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
**II Year Diploma in Medical Records Technology/ III Year Certificate
course in Medical Records Technology**
MEDICAL TERMINOLOGY
QP CODE – 3141
MEDICAL TERMINOLOGY

Time: 3 hrs   **Max. Marks: 90**

I. ANSWER THE FOLLOWING   **5 x 3 =15**

1) What are the objectives of medical terminology
2) Differenciate between prefix, suffix and root with examples
3) State the chief source for medical terminology
4) Define fracture and mention the different types of fractures
5) Basic concept of medical terminology

II. GIVE THE MEANING FOR THE FOLLOWING PREFIXES   **5 x 1 = 5**
1) Trans
2) Pro
3) De
4) Cata
5) Ad

III. GIVE THE PHOBIAS OF THE FOLLOWING   **10 x 1 =10**

1) Snakes   2) Red   3) Odours
4) New things   5) Vehicle   6) Cold.
7) Children   8) Walking   9) Old age
10) Light

IV. WRITE THE MEANING OF THE FOLLOWING SUFFIXES   **10 x 1 = 10**
1) Algia   6) Spasm
2) Otomy   7) Malacia
3) Ptosis   8) Cele
4) Lysis   .   9) Oscopy
5) Centasis   10) Ectomy.

V. MATCH THE FOLLOWING   **5 x 1 = 5**
1) Anthrophobia   A) chloros
2) Green   B) albus
3) Purple   C) Fear of society
4) White   D) Fear of man
5) Androphobia   E) porphyros

PTO…

VI. DEFINE THE FOLLOWING   15 x 1 = 15

1) Abortion
2) Myxedema
3) Hyperemesis
4) Vasectomy
5) Polyuria
6) Pleurisy
7) Atelectasis
8) Perichondritis
9) Hepatomegaly
10) Glycosuria
11) Gastritis
12) Bradycardia
13) Epilepsy
14) Sciatica
15) Arthritis

VII. DIFFERENTIATE THE FOLLOWING TERMS   5 x 1 = 5
1) Cystotomy and cystostomy
2) Endemic and epidemic
3) Lymphadenitis and lymphangitis
4) Friction and fraction
5) Palpitation and palpation

VIII. GIVE THE MEDICAL TERMS   10 x 1 = 10
1) Loss of vision
2) Removal of breast
3) Bed wetting
4) Hair fall
5) Removal of uterus
6) Indigestion of the stomach
7) Inflammation of the lymph vessels
8) Difficult in speech
9) Unconscious
10) Inflammation of joints

IX. DEFINE THE FOLLOWING   5 x 1 = 5
1) Hypertrophy
2) Semicoma
3) Toxaemia
4) Onychia
5) Meconium

X. EXPAND THE FOLLOWING ABBREVIATIONS   10 x 1= 10

| 1) D&C | 2) MTP | 3) ASD | 4) IHD | 5) BPH |
| 6) LBW | 7) FTND | 8) MS | 9) ESR | 10) WHO |

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
II Year Diploma in Dental Mechanics / III Year Certificate course in Dental Mechanics
(FINAL) (O.S) PAPER – I
QP CODE – 1016

Time: 3 hrs   **Max. Marks: 75**

I. LONG ESSAY - ANSWER ANY TWO   **2 x 10 = 20**
1) Discuss in detail about the principles of teeth selection
2) Define articulators; classify articulators and write its uses. Describe the principles, mean values, advantages and disadvantages of articulators
3) Classify fixed partial dentures; discuss the various types of pontics

II. WRITE SHORT NOTES ON ANY EIGHT   **8 x 5 = 40**
4) Types of expansion screws
5) Components of cast partial denture
6) Major connector
7) Rebasing
8) Overjet and overbite.
9) Space maintainer
10) Compensatory curves
11) Electroplating of dies
12) Labial bow
13) Zero degree teeth

III. WRITE SHORT ANSWERS   **5 x 3=15**
14) Define immediate dentures
15) Custom made post
16) Treatment of cast
17) Tripoding
18) 18:8 steel

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QP CODE – 3171

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

I. LONG ESSAY **1 x 10 = 10**

1) Discuss principles of teeth arrangement; add a note on curing cycle

II. WRITE SHORT NOTES **5 x 5 = 25**

2) Beading and boxing of impressions
3) Immediate dentures
4) Splints
5) Occlusal plane
6) Dewaxing

III. WRITE SHORT ANSWERS **5 x 2=10**

7) Special trays
8) Bite blocks
9) Articulator
10) Separating media
11) Curve of Spee

*****

Time: 3 hrs   **Max. Marks: 75**

I. Answer the following   4x 10=40

1) Describe in detail periodontal instruments used for oral prophylaxis
2) Describe the aetiology, clinical features, histopathological changes in acute necrotizing ulcerative gingivitis
3) Define and classify calculus; describe various modes of attachment of calculus
4) Define and classify dental plaque; describe the various stages of dental plaque formation

II. Write short notes on ANY SEVEN: 7 x 5 =35

5) Dental stains
6) Periodontal abscess
7) Interdental cleaning aids
8) Acute herpetic gingivostomatitis
9) Uses and contraindications of ultrasonic scalers
10) Chronic gingivitis
11) Leukoplakia
12) Home care instructions and their importance

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QP CODE – 3181

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

I. Long essay   **1x 10=10**

1) Define dental plaque. Describe the various stages of plaque formation

II. Write short notes   **5 x 5 =25**

2) Difference between supragingival and subgingival calculus
3) Extrinsic stains
4) Brushing techniques
5) Chronic periodontitis
6) Periodontal probes

III. Write short answers   **2 x 5 = 10**

7) Bundle bone
8) Periodontal abscess
9) Disclosing agents
10) Powered toothbrush
11) Gingival sulcus

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
II Year Diploma in OT Technology/ III Year Certificate course in OT Technology
GENERAL ANAESTHESIA & OPERATIVE PROCEDURE (O.S)
QP CODE – 1005

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

1) Define anaesthesia; describe the stages of anaesthesia
2) Enumerate blood groups; add a note on blood transfusion
3) Describe the steps in preparation of a case for laparoscopic appendicectomy

II. WRITE SHORT NOTES ON ANY TEN   **10 x 5 = 50**

4) Complications of spinal anaesthesia
5) Autoclave
6) Magill's forceps
7) Lithotomy position
8) Bronchoscopy
9) Consent
10) Lignocaine
11) Vecuronium
12) Basic Life Support (BLS)
13) Amputation
14) Incision and drainage
15) Death on table

III. WRITE SHORT ANSWERS   **10 x 2 =20**

16) Laryngoscope
17) Tracheostomy
18) Suction apparatus
19) Dextrose 5%
20) Hypothermia
21) Ryle's tube
22) Thiopentone
23) Fentanyl
24) Herniorrhaphy
25) Skin grafting

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
II Year Diploma in OT Technology/ III Year Certificate course in OT Technology
ANAESTHESIA & ALLIED TOPICS (N.S)
QP CODE – 3131

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

1) Classify intravenous induction agents. Give a note on thiopentone sodium
2) Explain the steps of checking anaesthesia machine and arranging drugs trolley
3) Describe the steps in preparation of a patient for emergency caesarean section

II. WRITE SHORT NOTES ON ANY TEN   **10 x 5 = 50**

4) Ranitidine
5) Lithotomy postion
6) LMA
7) Bronchospasm
8) Adrenaline
9) Midazolam
10) Hypotension
11) Colloids
12) Physiotherapy
13) Pulse oximeter
14) Postspinal headache
15) Consent

III. WRITE SHORT ANSWERS   **10 x 2 =20**

16) Foley's catheter
17) Oropharyngeal airway
18) Cautery
19) Iodine
20) Hyperthermia
21) Bain circuit
22) Glutaraldehyde
23) Multipara monitor
24) Spinal needle
25) Hydrogen peroxide

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
II Year Diploma in Dialysis Technology/ III Year Certificate course in Dialysis Technology
FUNDAMENTALS OF DIALYSIS TECHNOLOGY (FINAL) (O.S)
QP CODE – 1012

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

1) Describe in detail about RO water treatment plant and its functions
2) Monitoring of a patient of haemodialysis
3) Describe the anatomy and uses of an AV fistula

II. WRITE SHORT NOTES ON ANY TEN   **10 x 5 = 50**

4) Saline dialysis
5) Functions of kidney
6) CAPD
7) Vaccination in a dialysis patient
8) Plasmapharesis
9) Complications of central venous catheterization
10) Describe the cannulation of veins
11) AVgraft
12) Dialysate composition
13) Dialyser reuse
14) Indications of haemodialysis
15) Anatomy of artificial kidney

III. WRITE SHORT ANSWERS   **10 x 2 =20**

16) Normal values of serum sodium and potassium
17) Name two poisons treated by dialysis
18) Name two anticoagulants used in dialysis
19) Types of central venous catheter
20) Deionizer
21) Types of CRRT
22) Types of dialysate
23) Hyperkalaemia
24) Dialysis disequilibrium syndrome
25) Name two drugs of hypertension

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
II Year Diploma in Dialysis Technology/ III Year Certificate course in Dialysis Technology
FUNDAMENTALS OF HAEMODIALYSIS & COMPONENTS (N.S)

QP CODE - 3151

Time: 3 hrs   **Max. Marks: 90**

I. ANSWER ANY TWO   **2 x 10 = 20**

1) Describe how you would initiate haemodialysis in a patient with advanced renal failure with metabolic acidosis, hyperkalaemia and thrombocytopenia
2) Describe the structure, function, advantages and disadvantages of arteriovenous graft
3) Describe adequacy of dialysis and factors which affect it

II. WRITE SHORT NOTES ON ANY TEN   **10 x 5 = 50**

4) Complications of heparin and their management
5) Dialysis disequilibrium
6) Cuffed venous catheters
7) Hypertension during dialysis
8) Disinfection of dialysis machines
9) Water conservation in a haemodialysis unit
10) Predialysis counseling
11) Improving quality of life in patients on haemodialysis
12) Blood loss during haemodialysis
13) Maintenance of a reverse osmosis plant
14) Dialysis in HIV positive patients
15) Measures to increase longetivity of arrteriovenous fistula

III. WRITE SHORT ANSWERS   **10 x 2 =20**

16) Glutaldehyde
17) Prutitis in haemodialysis patient
18) Two vaccinations for patients on dialysis
19) Single use dialysers
20) Two antibiotics useful for catheter infections
21) Two indications for heparin free dialysis
22) Normal values of serum urea and creatinine
23) Indications for calcium free dialysate use
24) Stages of chronic kidney disease
25) Types of dialysate delivery system

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PARAMEDICAL BOARD BANGALORE
Supplementary Examination, MAY 2014
Common paper for all I year Certificate Courses
PHYSICS
(OLD & NEW SCHEME)
QP CODE - 1101

Time: 1 ½ hrs   **Max. Marks: 45 New Scheme**
                                     40 Old Scheme

I. LONG ESSAY - ANSWER ANY ONE   **1 x 10 = 10**

1) State Newton's laws of motion with examples

2) Define wave motion. What are their characteristics; mention the differences between transverse and longitudinal waves

II. WRITE SHORT NOTES ON ANY FIVE   **5 x 5 = 25**

3) Radiation and its application

4) Speed, velocity and acceleration

5) Electromagnetic induction

6) Scalars and vectors

7) State Ohm's law and its application

8) Mass and weight

9) Results and equilibrant

III. WRITE SHORT ANSWERS   **5 x 2=10**

10) Fundamental and derived units

11) Real and virtual image

12) Frequency and amplitude of a sound wave

13) State Boyle's law

14) Capacitor

PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY -2014
FIRST DPT – ANATOMY
QP CODE – 2191

Time: 3 hrs   **Max. Marks: 90**

I. ANSWER ANY TWO   **2 x 10 = 20**

1) Name the parts of the gastrointestinal system. Write briefly on stomach.
2) Name the parts of the female reproductive system and write briefly on uterus.
3) Name the parts of the CNS and write briefly on pons.

II. WRITE SHORT NOTES ON ANY TEN   **10 x 5 = 50**

4) Coronary veins
5) Pancreas
6) Right suprarenal gland
7) Liver
8) Pituitary gland
9) Medial surface of left lung
10) Simple epithelium
11) Mucous salivary gland
12) Meninges
13) Extraocular muscles
14) Anterior and posterior relations of right kidney
15) Biceps brachii muscle

III. WRITE SHORT ANSWERS   **10 x 2 =20**

16) Ejaculatory duct
17) Name 4 parts of brain
18) Name 4 muscles of arm
19) Name 4 bones of skull
20) Name parts of fallopian tube
21) Name parts of ear
22) Name 4 parts of Femur bone
23) Name 4 layers of scalp
24) Name 4 bronchopulmonary segments in right lung
25) Name 2 cells in seminiferous tubules.

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Time: 2 hrs   **Max. Marks: 65**

I. Long Essay - Answer any FOUR   **4 x 10 =40**

1) Acute ankle sprain- lateral ligament injury- its aetiology, clinical features and physiotherapeutic manangement
2) Physical education for rural population
3) Write in detail about the regional sports condition and explain any one in detail.
4) Write bout medial meniscus injury. Explain its pathomechanics, clinical features and detailed rehabilitation program for the same.
5) Write the general evaluation and fitness testing program of an athlete after recovery from an injury.

II. Write short notes on any FIVE   **5 x 5 = 25**

6) Tendoachilles
7) Rotator cuff injury
8) Bicipital tendonitis
9) Nerve entrapment
10) Boutonnieres deformity
11) Tenosynovitis

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PAPER – I
QP CODE 2161

Time: 3 hrs   **Max. Marks: 90**

I. LONG ESSAY – ANSWER ANY TWO   **2 x 10 = 20**

1) Describe the various methods of subjective verification of refraction.
2) Hypermetropia- types, diagnosis and its correction.
3) Types of transposition of lenses- discuss the uses of transposition.

II.WRITE SHORT NOTES ON ANY TEN   **10 x 5 = 50**

4) Uses of lens in ophthalmology
5) Image formation by convex mirror
6) Neutralization of spectacle lenses
7) Advantages and disadvantages of spectacles and contact lenses
8) Eye index lenses
9) Importance of measurement of IPD
10) Keratometry and its uses
11) Laws of reflection
12) Total internal reflection
13) Indications for cycloplegia in refraction
14) Compare symptoms of hypermetropia with myopia
15) Bifocal glasses

III. Write short answers   **10 x 2 =20**

16) Define ametropia
17) Types of astigmatism
18) Stenopic slit
19) Pinhole
20) 3 stages of retinoscopy
21) Various tests for colour vision
22) Contraindications for contact lens wear
23) Layers of cornea
24) Snell's law
25) Materials used for the manufacture of spectacle lenses

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY -2014
I Year Diploma in Medical Laboratory Technology /II Year Certificate course

Time: 3 hrs   **Max. Marks: 90**

Note: Write section A & Section B in separate answer books.

Section- A, ANATOMY: QP CODE – 2101

I. Long Essay – Answer any ONE   **1 x 10=10**
1) Draw a neat labeled diagram of digestive system. Describe the gross anatomy of stomach.
2) Classify joints with examples. Describe synovial joints.

II. Write short notes on any FIVE   **5 x 5 =25**

3) Histology of skin	7) Histology of Lymph node
4) Pituitary gland	8) Blood supply of heart
5) Pancreas	9) Spinal nerve
6) Long bone	

III. Write short answers   **5 x 2=10**
10) Name the carpal bones
11) Name the types of cartilage
12) Name 2 nerves of upper limb
13) Name the organs of the urinary system
14) Name the parts of light microscope

Section- B, PHYSIOLOGY (Write in separate answer book)
QP CODE – 2102

I. Long Essay – Answer any ONE   **1 x 10=10**
1) Describe the composition and functions of blood
2) Name all the hormones of pituitary gland. Describe the function of any one of them.

II. Write short notes on any FIVE   **5 x 5 =25**

3) Draw a neat labeled diagram of a neuron	
4) Functions of liver	7) Draw a labeled diagram of ECG
5) Complications of blood transfusion	8) Cerebrospinal fluid
6) Refractive errors of eye	9) Bile salts

III. Write short answers   **5 x 2=10**
10) Name two digestive enzymes
11) Name 2 different types of anaemia
12) Name any two functions of oestrogen
13) Name any two functions of skin
14) Write the normal values of a) GFR   b) heart rate

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY -2014
I Year Diploma in Medical X- Ray Technology /II Year Certificate course
GENERAL PHYSICS
QP CODE- 2121

Time: 1 ½ hrs   **Max. Marks: 45**

I. LONG ESSAY - ANSWER ANY ONE   **1 x 10 = 10**

1) What is autotransformer? Explain step-up and step-down transformers. Add a note on eddy current losses
2) Draw a neat labeled diagram of x-ray tube. Add a note on rotating anode.

II. WRITE SHORT NOTES ON ANY FIVE   **5 x 5 = 25**

3) Characteristic radiation
4) Full wave rectifier
5) Explain Neil Bohr's atomic model
6) Capacitors
7) Define magnetism. Mention different types of magnets
8) Ohm's law

III. WRITE SHORT ANSWERS   **5 x 2 =10**

9) Half value layer
10) Voltameter
11) Tungsten
12) Radiation units
13) Fluorescence

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY -2014
I Year Diploma in Medical Records Technology/II Year Certificate course
MRS & MLA (O.S)

QP CODE – 1007

Note: Write section A & Section B in separate answer books
Time: 3 Hrs Max.   **Marks: 90**
Section- A, Medical Records Science (Write in separate answer book)

I. **LONG ESSAY - ANSWER ANY ONE**   **1 x 10 = 10**
1) Write in detail about the retention and preservation of medical records
2) List the registers maintained in MRD with importance of maintaining registers with one example

II. WRITE SHORT NOTES ON ANY FIVE   **5 x 5 = 25**
3) Write about the Form control program
4) Define medical records
5) Discuss about the location of misfiles
6) Qualitative and quantitative analyses
7) Explain in detail about the characteristics of good medical records
8) Which are the deficiencies commonly found in the case sheets and procedures followed to complete it
9) Define medical audit committee

III. WRITE SHORT ANSWERS   **5 x 2=10**
10) OPD 11) DAMA 12) Accession register 13) Basic forms   14) Filing system

Section- B, Medico Legal Aspects (Write in separate answer book)
QP CODE – 1007(O.S)

I. LONG ESSAY - ANSWER ANY ONE   **1 x 10 = 10**
1) Which are the different types of evidence and explain with one example what is evidence according to Indian Evidence Act 1872
2) Distinguish between summons and warrant, how is it served to a party residing in foreign country

II. WRITE SHORT NOTES ON ANY FIVE   **5 x 5 = 25**
3) Define burden of proof
4) Production of documents
5) Cognizable and non-cognizable offences
6) Who is public servant as per Indian Penal code
7) What are the rights of an arrested person
8) Casualty department

III. WRITE SHORT ANSWERS   **5 x 2=10**
10) Pleader   11) Judge   12) Legal representative   13) Postmortem report
14) Judicial notice
******

Time: 3 hrs   **Max. Marks: 90**

I. LONG ESSAY - ANSWER ANY TWO   **2 x 10 = 20**

1) Discuss the values of interdepartmental relationship of MRD with other departments of the hospital
2) Explain the functions of MRD
3) Define warrant and explain the different types of search warrant

II. WRITE SHORT NOTES ON ANY TEN   **10 x 5 = 50**
4) Oral and documentary evidence
5) Workmen's compensation Act
6) Persons exempted from personal appearance in court
7) Movable and immovable property
8) Summons to defendants
9) Relevancy of facts
10) Middle digit filing
11) Medical records committee
12) Basic and special forms
13) Registers maintained in MRD
14) Flowchart of inpatient records
15) Qualitative and quantitative analysis

III. WRITE SHORT ANSWERS   **10 x 2=20**

16) Discharge summary
17) Birth Register
18) Inpatient register
19) Grave risk consent
20) Accession register
21) FIR
22) Malpractice suits
23) Bed occupancy rates
24) Medical record
25) Brought Dead register

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PAPER – I (O.S)

QP CODE - 1014

Time: 3 hrs   **Max. Marks: 75**

I. LONG ESSAY   4 x 10 =40

1) What are the general properties of metal? Mention the metals and alloys used in dentistry
2) What is stress and strain? Describe the types of stress and strain
3) Define adhesion, cohesion and surface tension; discuss their role in denture retention
4) Define dental cast; mention the different types of cast and parts of cast

II. WRITE SHORT NOTES ON ANY SEVEN   7x 5 = 35

5) Ductility and malleability
6) Element and compound
7) Inclined plane
8) Lever principles
9) Flexibility
10) Specific gravity
11) Convection
12) Solvent
13) Acid and base

*****

QP CODE – 2171

Time: 1 ½ hrs   **Max. Marks: 45**

I. LONG ESSAY - ANSWER ANY ONE   **1 x 10 = 10**

1) Classify Impression materials. Write in detail about irreversible hydrocolloid impression material
2) Classify gypsum products and describe in detail type I gypsum product

II. WRITE SHORT NOTES ON ANY FIVE   **5 x 5 = 25**

3) Properties of cold-cure acrylic resin
4) Dental waxes
5) Zinc oxide eugenol cement.
6) Mucocompressive impressive materials
7) Tarnish and corrosion
8) Composition and setting reaction of glass ionomer cement
9) Classification and uses of cast-gold alloys

III. WRITE SHORT ANSWERS   **5 x 2=10**

10) Composition of impression compounds
11) Name 4 denture base materials
12) Electroplating
13) Types of stainless steel
14) Green strength

*****

QP CODE – 1018

Time: 3 hrs   **Max. Marks: 75**

Section – A, ANATOMY (write in separate answer book)

I. Long Question – Answer any TWO   **2 x 10=20**

1) Describe the origin, insertion, nerve supply and action of the muscles of mastication
2) Describe the course, branches, and supply of the trigeminal nerve
3) Draw a neat labeled diagram of a tooth; add a note on the dental formula in adults

II. Write short notes on any FIVE   **5 x 5 =25**

4) Submandibular gland
5) Taste buds.
6) Facial nerve
7) Temporomandibular joint
8) Deciduous teeth
9) Vestibule of mouth

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

QP CODE – 1018

I. Long Essay   **1 x 10=10**

1) Describe the mechanism of blood coagulation

II. Write short notes on any FIVE   **5 x 4 =20**

2) White blood cells
3) Growth hormone
4) Deglutition and phonation
5) Functions of mitochondria and golgi apparatus
6) Blood groups
7) Functions of saliva

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY -2014
I Year Diploma/II Certificate Course in Dental Hygiene
GENERAL ANATOMY, HISTOLOGY AND GENERAL PHYSIOLOGY
Note: Write section A & Section B in separate answer books

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

Section- A, GENERAL ANATOMY & HISTOLOGY (write in separate answer book)
QP CODE – 2181

I. Long Essay – Answer any ONE   **1x 9=9**

1) Describe the Temporomandibular joint
2) Describe the course and distribution of Facial nerve

II. Write short notes on any TWO   **2x 5 =10**

3) Structure of tooth
4) Facial artery
5) Structure of compact bone

III. Write short answers   **3 x2 =6**

6) Name 4 cartilages of larynx
7) Name three salivary glands
8) Name parts of mandible

Section – B, GENERAL PHYSIOLOGY (write in separate answer book)
QP CODE – 2182

I. Write short notes on any FOUR   **4 x 4 =16**

1) Draw a neat labeled diagram of eye
2) Functions of saliva
3) Define cardiac cycle and add a note on factors affecting it
4) Plot a flow chart of intrinsic and extrinsic clotting mechanism
5) Functions of respiratory system
6) Define blood, functions of blood

II. Write short answers   **2 x2 = 4**
7) Name any two functions of ear
8) Name two anticoagulants

*****

QP CODE - 1004

Time: 3 hrs   **Max. Marks: 90**

I. LONG ESSAY - ANSWER ANY TWO   **2 x 10 = 20**

1) Describe the methods of sterilization; what methods are used in the OT?
2) Describe the layout of the OT plan, sterile and unsterile area, etc.
3) Describe in detail the preoperative evaluation and preoperative preparation of the patient? Any special instructions?

II. WRITE SHORT NOTES ON ANY TEN   **10 x 5 = 50**

4) Health care team
5) Patient-physician relationship
6) Infection control asepsis
7) History of modern surgery
8) Preliminary control of bleeding and describe haemostasis
9) Measures taken to prevent post-operative infection
10) Painting and draping
11) Layout of the surgical instrument trolley
12) Autoclave
13) Consent for operation
14) Patient-nurse relationship
15) What is physical layout or exchange area; explain.

III. WRITE SHORT ANSWERS   **10 x 2 =20**

16) Types of local anaesthesia and its uses
17) Types of enema
18) Radiation sources
19) Types of absorbable suture materials
20) Position of patient for vasectomy and cholecystectomy
21) Scrub room
22) Theatre drugs
23) Operating team members
24) What is the position for kidney surgery
25) Area of skin preparation for abdominal operation

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY -2014
I Year Diploma in OT Technology /II Year Certificate course
FUNDAMENTALS OF OT TECHNOLOGY & BASIC CONCEPTS IN SURGERY
(N.S)
QP CODE - 2131

Time: 3 hrs   **Max. Marks: 90**

I. LONG ESSAY - ANSWER ANY TWO   **2 x 10 = 20**

1) Describe types of wound healing. Describe the factors influencing wound healing.
2) Mention types of haemorrhage; describe the clinical features and management of haemorrhagic shock.
3) Describe the preoperative preparations for a patient posted for abdominal surgery

II. WRITE SHORT NOTES ON ANY TEN   **10 x 5 = 50**
4) Check list of patients before surgery
5) Types of catheters; describe Foley's catherization
6) Mop count and its importance
7) Vacuum suction
8) Sterile team members
9) Techniques of gloving
10) Handwashing techniques
11) Laparoscopy
12) Ambulatory (day care) surgery
13) Antiseptics
14) Preoperative care in recovery room
15) Pulse oximetry

III. WRITE SHORT ANSWERS   **10 x 2 =20**

16) Corrugated rubber drain
17) Atropine
18) Endotracheal tube
19) Non absorbable suture materials
20) Nitrous oxide
21) Surgical scrubbing
22) High risk consent
23) Cystoscopy
24) Airway
25) Positions in surgery

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY -2014
I Year Diploma in Dialysis Technology /II Year Certificate course
FUNDAMENTALS OF DIALYSIS TECHNOLOGY (O.S)
QP CODE - 1011

Time: 3 hrs   **Max. Marks: 90**

I. ANSWER ANY TWO   **2 x 10 = 20**

1) Describe the components of dialysis team and the responsibility
2) Explain the monitoring of the patient on dialysis
3) Describe in detail about chronic dialysis prescription

II. WRITE SHORT NOTES ON ANY TEN   **10 x 5 = 50**

4) Functions of kidney
5) Parts of water purification system
6) Ultrafiltration
7) Priming
8) Describe the technique of CVC (central venous catherization)
9) Psychiatric complications on chronic dialysis patients
10) Define acute kidney injury
11) Record keeping in a dialysis unit
12) Cardiovascular problems in a dialysis patient
13) Preparation of dialysate concentrate
14) Haemoperfusion
15) Bundle volume of dialyser

III. WRITE SHORT ANSWERS   **10 x 2 =20**

16) Endocrine functions of kidney.
17) Bicarbonate buffer system
18) Renal diet
19) Urea reduction ratio
20) Disinfectant used in dialysis unit
21) Normal levels of blood urea and serum creatinine
22) Hepatitis prophylaxis
23) Name two pathological constituents of urine
24) Protamine sulphate
25) Dry weight
26) Rigid heparin

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY -2014
I Year Diploma in Dialysis Technology /II Year Certificate course
PHARMACOLOGY AND THEORY OF DIALYSIS (NS)
Note: Write Section A and B in separate answer books

Time: 3 hrs   Max. Marks: 90

SECTION – A, PHARMACOLOGY (Write in separate answer book)
QP CODE- 2151

I. ANSWER ANY ONE   **1 x 10 = 10**

1) Classify local anaesthetics and mention the drugs used and complications of spinal anaesthetics
2) Classify fluoroquinolones; write the uses and adverse effects of ciprofloxacin

II. WRITE SHORT NOTES ON ANY FIVE   **5 x 5 = 25**

3) Influenza vaccines
4) Diazepam
5) Paracetamol
6) Vitamin C
7) Iron preparations used in anaemia
8) Cotrimoxazole

III. WRITE SHORT ANSWERS   **5 x 2 =10**

9) Name two sedatives
10) Write two uses of opioid analgesics
11) Write two oral hypoglycaemic drugs used in diabetes mellitus
12) Write two uses of ranitidine
13) Name two antiemetics

SECTION – B, THEORY OF DIALYSIS (Write in separate answer book)
QP CODE - 2152

I. ANSWER ANY ONE   **1 x 10 = 10**

1) Describe the evolution of dialysers used in haemodialysis. Draw a diagram of a hollow fibre dialyser.
2) Describe body water compartments. Describe the functions of kidney.

II. WRITE SHORT NOTES ON ANY FIVE   **5 x 5 = 25**

3) Heparin
4) Water purification as per AAMI standards
5) Importance of dry weight
6) Venous catheters
7) Composition of dialysate
8) Universal precautions and infection control measures in a haemodialysis unit

III. WRITE SHORT ANSWERS   **5 x 2 =10**

9) Diffusion
10) Bundle volume
11) Two causes of acute renal failure
12) Normal haemoglobin and pH values
13) First use syndrome

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
II DPT – PHARMACOLOGY
QP CODE – 3192

Time: 3 hrs   **Max. Marks: 90**

I. Long Essays – (Answer any FOUR)   **4 x 15=60**

1) Classify routes of drug administration; write the advantages and disadvantages of intravenous route of drug administration
2) Classify anticholinergic drugs; write the actions, uses and adverse effects of atropine
3) Classify beta blockers; write the uses and adverse effects of propranolol
4) Classify sedatives and hynotics; write the uses, actions and adverse effects of diazepam
5) Classify penicillins; write their mechanism of action, uses and adverse effects

II. Write short notes on any FOUR   **4 x 5= 20**

6) Explain drug synergism with examples
7) Write the uses and adverse effects of insulins
8) Tramadol
9) Metronidazole
10) Write the uses and adverse effects of phenytoin sodium

III. Write short answers   **5 x 2 =10**
11) Name two bronchodilators
12) Name two uses of neuromuscular blockers
13) Name two drugs used in emergency contraception
14) Write two uses of metoclopromide
15) Mention the drugs used in anaphylactic shock

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
II Year Diploma in Ophthalmic Technology/ III Year Certificate course in Ophthalmic Technology
PAPER – II
QP CODE - 3162

Time: 3 hrs   **Max. Marks: 90**

I. Answer any two   **2 x 10 = 20**

1) Organization of an eye camp   and publicity.

2) District Blindness Control Society

3) Role of PMOA in ophthalmic emergencies

II. Write short notes on any ten   **10 x 5 = 50**

4) Rehabilitation of the blind

5) Screening of school children for eye diseases

6) Post operative endophthalmitis

7) Precautions to be taken before enucleation

8) Cataract Surgical Records

9) OPD and IPD formats

10) Prevalence and incidence of blindness in India

11) Survey methodology

12) Role of PMOA in preventable blindness

13) Preparation of sterile ocular dressing

14) Disease index

15) Vitamin A prophylaxis

III. Write short answers   **10 x 2 =20**

16) Conditions causing 'with movement' on retinoscopy with plane mirror at 1 metre

17) Indications for enucleation

18) Mention the alternatives to spectacles in correction of myopia

19) Indications for cycloplegia in refraction

20) Uses of cylindrical lenses

21) Protective glasses

22) Materials used for ophthalmic lenses

23) Suture materials in ophthalmic surgery

24) Indications and dangers of steroid eye drops

25) Types of cataract

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
II Year Diploma in Medical Laboratory Technology/ III Year Certificate course
in Medical Laboratory Technology
PATHOLOGY   QP CODE - 3102

Time: 3 hrs   **Max. Marks: 90**

I. Long Essays (Answer any two)   **2 x 10=20**

1) Describe physical, chemical and microscopic examination of CSF.

2) Describe in detail the tissue processing, principles and procedure of H&E staining

3) Define cross matching; describe in detail the types of cross matching

II. Write short notes on any TEN   **10 x 5 =50**

4) Sputum examination

5) Prothrombin time and Activated partial thromboplastin time

6) Frozen section

7) Haemoglobin electrophoresis

8) Quality control and waste management in haematology

9) Automation in haematology

10) Semen analysis

11) Pap smear- procedure and principle

12) PCV

13) Barr body

14) Osmotic fragility test

15) Microwaves

III. Write short answers   **10 x 2 = 20**

16) Decalcification

17) Fixatives used in histopathology lab

18) Sickling test

19) Westergren's tube

20) Cryostat

21) Honing and stropping

22) Methods of Hb estimation

23) Coombs test

24) Name Romanovsky stains

25) Bone marrow aspiration needles

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
II Year Diploma in Health Inspector/ III Year Certificate course in Health Inspector
PAPER – II
QP CODE - 3112

Time: 3 hrs   **Max. Marks: 90**

I. Long Essays – (Answer any TWO)   **2 x 10 = 20**

1) Define infant mortality rate; write the causes of IMR and add a note on its preventive measures

2) Define contraception. Classify contraceptive methods; add a note on IUCD

3) Define health education; discuss approach to health education in detail

II. Write short notes on any TEN   **10 x 5 = 50**

4) Mother card

5) Growth chart

6) MTP Act

7) Essential drugs

8) Antenatal advice

9) Juvenile delinquency

10) Millennium development goals

11) Types of communication

12) Exclusive breast feeding

13) Demographic cycle

14) Factors affecting fertility

15) Child abuse

III. Write short answer   **10 x 2 =20**

16) Post natal complications

17) Emergency contraceptive pills

18) No-scalpel vasectomy

19) ASHA

20) Advantages of home visit

21) Two way communication

22) Audiovisual aid

23) Define family planning

24) Street children

25) Internet

★★★★

Time: 3 hrs   **Max. Marks: 90**

I. LONG ESSAY - ANSWER ANY TWO   **2 x 10 = 20**

1) Discuus in detail about radiotherapy in cervical cancer

2) Enumerate the views for cervical spine and patella

3) Mammography procedure and standard views

II. WRITE SHORT NOTES ON ANY TEN   **10 x 5 = 50**

4) Shoulder joint

5) Fluroscopy

6) Replenishers

7) Dark room techniques

8) Barium enema

9) T tube cholangiogram

10) MCU and RGU

11) Half value layer

12) Cassette

13) TLD

14) Tube rating

15) Lead barrier

III. WRITE SHORT ANSWERS   **10 x 2 =20**

16) Hangers

17) Grid ratio

18) Safe exposure limits

19) Anode and cathode

20) Constituenys of developer

21) Constituents of fixer

22) Safe light

23) Views for chest xray

24) First line treatment for contrast reactions

25) Line focus principles

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PARAMEDICAL BOARD, BANGALORE

Supplementary Examination, MAY 2014
II Year Diploma in Medical X- Ray Technology/ III Year Certificate course in Medical X- Ray Technology
RADIOGRAPHY INCLUDING MEDICAL RECORDS, (N.S) R-II

QP CODE - 3122

Time: 3 hrs   **Max. Marks: 90**

I. LONG ESSAY - ANSWER ANY TWO   **2 x 10 = 20**

1) Write in detail about fluoroscopy

2) What are the indications of barium meal follow through and write in detail about the procedure

3) Write briefly about medicolegal records maintained in radiodiagnosis department

II. WRITE SHORT NOTES ON ANY TEN   **10 x 5 = 50**

4) General radiography views

5) Knee x-ray

6) Subtraction angiography

7) CR cassette

8) Contrast media

9) Micturating cystourethrogram

10) Types of screens

11) Water's view

12) X-ray tube

13) Inverse square law

14) Teleradiology

15) Dental film

III. WRITE SHORT ANSWERS   **10 x 2 =20**

16) PACS

17) Safe light

18) Anode heel effect

19) Properties of gamma rays

20) Summons

21) Methods of dark room processing

22) Central ray

23) Resistors

24) T2WI

25) Compton effect

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
II Year Diploma in Medical Records Technology/ III Year Certificate
course in Medical Records Technology
HOSPITAL ADMINISTRATION
QP CODE - 3142

Time: 3 hrs   **Max. Marks: 90**

I. LONG ESSAY - ANSWER ANY TWO   **2 x 10 = 20**

1) Objective, role, functions and types of pharmacy services

2) Enumerate the mortuary services- role and functions in a teaching hospital; discuss on the policies and procedures

3) Classify hospital waste; discuss on the containers for collecting the sharps-handling, transfer and safety precautions

II. WRITE SHORT NOTES ON ANY TEN   **10 x 5 = 50**

4) Principles of inventory analysis

5) Advantages of using disposable plastic bags in blood bank

6) Break-even analysis-explain in brief

7) Total Quality Management in health care services

8) Brachytherapy

9) Hospital environment

10) PERT

11) Uses of contingency approach

12) Flying ambulance and helicopter ambulance

13) Factors influencing in-patient care

14) Nursing audit

15) Rehabilitation approaches

III. WRITE SHORT ANSWERS   **10 x 2 =20**

16) Diet counselling

17) Safety of medicolegal documents

18) Inventory management

19) Objectives of CSSD

20) Criteria for a good disinfectant cleaner

21) Factors to be considered in planning inpatient care

22) Collection and dispatch of linen

23) Initiate In-patient records

24) Grievance redressal system

25) Functions of the house keeping department

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
II Year Diploma in Dental Mechanics/ III Year Certificate course in Dental Mechanics (FINAL)
Dental Materials and Metallurgy (O.S) PAPER – II

QP CODE – 1017

Time: 3 hrs   **Max. Marks: 75**

I. LONG ESSAYS - ANSWER ANY TWO   **2 x 10 = 20**

1) Classify impression materials; write in detail about impression compounds

2) Classify dental cements; write the composition, setting reaction and uses of zinc phosphate

   cement

3) Classify denture bases; discuss about compression moulding technique

II. WRITE SHORT NOTES ON ANY EIGHT   **8 x 5 = 40**

 4) Annealing

 5) Gypsum-bonded investment material

6) Mucostatic impression materials

7) Types of gypsum

8) Uses of glass ionomer cement

9) Irreversible hydrocolloid

10) Fluxes and antifluxes

11) Uses of gold in dentistry

12) Additional polymerization

III. WRITE SHORT ANSWERS   **5 x 3=15**

13) Die material

14) Green shrinkage

15) Syneresis and imbibition

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
II Year Diploma in Dental Mechanics/ III Year Certificate course in Dental Mechanics
PARTIAL DENTURES, ORTHODONTIA, MAXILLOFACIAL PROSTHESIS
(N.S)
QP CODE - 3172

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

I. LONG ESSAY   **1 x 10 = 10**

1) Mention the components of removable partial denture and discuss the various types of direct retainers

II. WRITE SHORT NOTES   **5 x 5 = 25**

2) Principles of wire bending
3) Define pontic; classify them
4) Expansion screws
5) Labial bow
6) Pindex system

III. WRITE SHORT ANSWERS   **5 x 2=10**

7) Hawley's appliance.
8) Overjet and overbite.
9) Indirect retainer
10) Sand blasting
11) Kennedy's class II.

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II Year Diploma in Dental Hygiene / III Year Certificate course in Dental Hygiene
DENTAL HEALTH EDUCATION, SOCIAL & PUBLIC HEALTH
& PREVENTIVE DENTISTRY (N.S)
# QP CODE - 3182

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

I. Long essay   **1 x 10 =10**

1) Discuss in detail the various sources of water supply to the community; add a note on

   their implication on dental health

II. Write short notes   **5 x 5 =25**

2) Environmental health
3) Root caries
4) Classification of antiplaque agents
5) Mouthbreathing
6) Dental camps.

III. Write short answers   **5 x 2 = 10**

7) Dental floss.
8) Child counselling
9) Fluorosis
10) Powered toothbrushes
11) McCall's festoons

*****

Time: 3 hrs   **Max. Marks: 90**

I. ANSWER ANY TWO   **2 x 10 = 20**

1) Describe in detail management in preoperative phase

2) Describe the criteria for good position of patient during various surgeries; describe the various positions for surgeries

3) What is OT table; describe various components of OT table and its various types

II. WRITE SHORT NOTES ON ANY TEN   **10 x 5 = 50**

4) Describe various types of cutting and dissecting instruments

5) Types of towel clip

6) What are the methods of suturing

7) Ambulatory surgery

8) Types of incisions

9) Define wound; what are the different types in detail

10) What are sources of infection

11) What is exploratory laparatomy; what are its indications and purpose

12) Laser surgery

13) Radiofrequency ablation

14) Types of hazards in OT and its management

III. WRITE SHORT ANSWERS   **10 x 2 =20**

15) Healing by primary intention

16) Types of needles

17) Langerhan's lines

18) Different types of artery forceps

19) Pressure mattress

20) Thermal blanket

21) Stages of surgical anaesthesia

22) Scrub nurse

23) Steps of removing gloves

24) Postoperative minor complications

PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
II Year Diploma in OT Technology/ III Year Certificate course in OT Technology
OPERATIVE PROCEDURE (N.S)
QP CODE - 3132

Time: 3 hrs   **Max. Marks: 90**

I. ANSWER ANY TWO   **2 x 10 = 20**

1) Describe different types of abdominal incisions and their uses

2) Describe the short term and long term management of burns patient

3) What are the indications for extremity amputations? Describe in detail the procedure of above knee amputation

II. WRITE SHORT NOTES ON ANY TEN   **10 x 5 = 50**

4) Diabetic foot- management

5) Bronchoscopy

6) Methods of tendon repair

7) Deviated nasal septum

8) Universal precautions in surgery

9) Cataract surgeries

10) Special surgical problems in pediatric surgical patient

11) What is transplantation? Describe the types of transplantation

12) Emergency neurosurgical procedures

13) Importance of local anaesthesia in surgery

14) Mesh hernioplasty

15) ICD- indications and procedures

III. WRITE SHORT ANSWERS   **10 x 2 =20**

16) Complications of abdominal surgery

17) CVP

18) Technique of laparoscopic instrument sterilization

19) Indications of C-section

20) Indirect laryngoscopy

21) Methods of urinary catheterization

22) Multimodal treatment in cancer patients

23) Circumcision- methods

24) Splitskin grafting

25) Cardiac catheterization

PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
II Year Diploma in Dialysis Technology/ III Year Certificate course in Dialysis Technology
PATIENT TEACHING, PERITONEAL DIALYSIS & RENAL TRANSPLANTATION(O.S)
QP CODE - 1013

Time: 3 hrs   **Max. Marks: 90**

I. LONG ESSAYS - ANSWER ANY TWO   **2 x 10 = 20**

1) What is peritoneal dialysis; mention different types in detail

2) Describe the structure of a venous catheter, site of insertion and its complications

3) Alarms and its management during dialysis

II. WRITE SHORT NOTES ON ANY TEN   **10 x 5 = 50**

4) Principles involved in haemodialysis

5) Preparation of dialysate concentrate

6) Carbon tank

7) Adequacy of haemodialysis

8) Patient education about access area

9) Write the diagram of a kidney and label its parts

10) PET test

11) Uremic encephalopathy

12) Haemodia filtratration

13) SLED

14) Types of dialyser

15) Predilution v/s postdilution in CRRT

III. WRITE SHORT ANSWERS   **10 x 2 =20**

16) Normal values of calcium and phosphorous

17) Name two drugs for DM in CKD patients

18) Mention two types of peritoneal catheters

19) Mention two complications during haemodialysis

20) Formula for adequacy of dialysis

21) KoA of dialyser

22) Dialyser reaction

23) Transmembrane pressure

24) Blood and dialysate flow rate during initiation of haemodialysis in CKD

25) Advantages of cuffed venous catheters

PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
II Year Diploma in Dialysis Technology/ III Year Certificate course in Dialysis Technology
RENAL REPLACEMENT THERAPY OTHER THAN HAEMODIALYSIS & PATIENT TEACHING (N.S)
QP CODE - 3152

Time: 3 hrs   **Max. Marks: 90**

I. LONG ESSAYS - ANSWER ANY TWO   **2 x 10 = 20**

1) Describe principles of peritoneal dialysis. Compare and contrast advantages and disadvantages of haemodialysis and peritoneal dialysis

2) Mention the duties and responsibilities of various members of dialysis team; add a note on maintenance of records in dialysis unit

3) Describe causes of anaemia in a dialysis patient; mention the drugs used in the management of anaemia. Add a note on measures to prevent anaemia in dialysis

II. WRITE SHORT NOTES ON ANY TEN   **10 x 5 = 50**

4) Formaldehyde

5) Transplant coordinator

6) SLED

7) Cardiopulmonary reuscitation

8) Support systems for dialysis patients

9) Use of dialysis in treatment of poisonings

10) Psychiatric complications in dialysis patients

11) Wearable artificial kidney

12) Abdominal pain in a patient on peritoneal dialysis

13) Measures to prevent infections in peritoneal dialysis patients

14) Anticoagulation in continuous reanl transplantation therapy

15) Plasmapharesis

III. WRITE SHORT ANSWERS   **10 x 2 =20**

16) Haemolysis during dialysis

17) Two causes of generalized oedema

18) Two antiepileptic drugs

19) Dietary protein supplements for dialysis patients

20) Two drugs removed by dialysis

21) Normal values of a) serum calcium b) serum phosphate

22) Two fat soluble vitamins

23) Nocturnal haemodialysis

24) Newer peritoneal dialysis fluids

25) Cardiac complications in dialysis patients

PARAMEDICAL BOARD BANGALORE
Supplementary Examination, MAY 2014
Common paper for all I year Certificate Courses
CHEMISTRY
(OLD & NEW SCHEME)
QP CODE 1102

Time: 1 ½ hrs　　　　　　　　　　　**Max. Marks: 45 (New Scheme)**

　　　　　　　　　　　　　　　　　　　　　　　　40 (Old Scheme)

I. LONG ESSAY - ANSWER ANY ONE　　　　　　　　**1 x 10 = 10**

1) Define proteins; classify them and mention their functions

2) What are electrolytes? Explain the Arrhenius theory of electrolyte dissociation

II. WRITE SHORT NOTES ON ANY FIVE　　　　　　　**5 x 5 = 25(NS)**

　　　　　　　　　　　　　　　　　　　　　　　　5 x 4 = 20(OS)

3) Explain the structure of DNA

4) Biochemical messengers

5) Define amino acids; classify with examples

6) Functions of RNA and DNA

7) Brownian motion

8) Define hydrocarbon and explain the manufacture of methane

9) Lyophilic and lyophobic colloids

III. WRITE SHORT ANSWERS　　　　　　　　　　**5 x 2=10**

10) Henderson's Equation.

11) Disaccharides

12) Isotopes

13) Uses of phenol

14) Write a note on insulin

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
FIRST DPT – PHYSIOLOGY AND BIOCHEMISTRY
Note: Write section A & Section B in separate answer books

Time: 3 hrs   Max. Marks: 90

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

QP CODE - 2192

I. Answer any THREE   **3 x 10=30**

1) Describe the structure of a neuromuscular junction with the help of a neat labeled diagram and explain the mechanism of transmission across it.

2) Describe the composition and functions of gastric juice

3) Define haemostasis; explain the intrinsic and extrinsic pathways of blood coagulation

4) Describe spermatogenesis and list the factors affecting it

II. Write short notes on any five   **5x 5 =25**

5) Draw a neat labeled diagram of cell   9) Myxoedema

6) Normal cardiac cycle   10) Functions of placenta

7) Saltatory conduction   11) Plasma proteins

8) Pancreatic juice

III. Write short answers   **5 x 2=10**

12) List any two functions of cell membrane

13) Name any two lung volumes

14) Name any two neuromuscular blocking agents

15) Name any two gastrointestinal hormones

16) Name any two tests of hearing

Section – B, BIOCHEMISTRY (Write in separate answer book)

QP CODE - 2193

I. Answer any one   **1 x 10=10**

1) What are enzymes? Describe the factors affecting the enzyme activity

2) Define carbohydrates; classify with suitable examples. Add a note on mucopolysaccharides

II. Write short notes on any one   **1 x 5 = 5**

3) Phospholipids

4) Sources, daily requirements, biochemical functions and deficiency manifestations of Vitamin D

III. Write short answers   **5 x 2=10**

5) Sucrose

6) Pellagra

7) Essential fatty acids

8) Malnutrition

9) Cellulose

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
III DPT – YOGA & MENTAL HEALTH
QP CODE - 3202

Time: 2 hrs   **Max. Marks: 65**

I. Long Essay - Answer any FOUR   **4 x 10 =40**

1) Explain the concept of yoga; describe its practice levels, asanas. Write an asana for meditation and its importance
2) Describe the benefits of yoga therapy in physiotherapy
3) What is Pranayama; its Kriyas in yoga therapy
4) What is prathyahara; what are its niyamas in yoga
5) What are the factors contributing towards normal mental health?

II. Write short notes on any FIVE   **5 x 5 = 25**

6) Mayurasana
7) Trikonasana
8) Samadhi
9) Yamas and mudras
10) Yoga for psychiatric patients
11) Shradhas

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
I Year Diploma in Ophthalmic Technology/ II Year Certificate course in Ophthalmic Technology
PAPER – II

QP CODE - 2162

Time: 3 hrs **Max. Marks: 90**

I. Answer any TWO **2 x 10 = 20**

1) Causes of corneal ulcer, clinical features, complication and management of the same.

2) Enumerate the causes of watering in the eye; discuss its management

3) Discuss the types, diagnosis and treatment of cataract

II. Write short notes on any TEN **10 x 5 = 50**

4) Cover test

5) Discuss the causes for poor vision after cataract surgery

6) Indentation tonometry

7) Importance of lacrimal syringing before cataract surgery

8) Method of estimating IOL power before cataract surgery

9) Classification of diabetic retinopathy

10) Importance of fundoscopy during routine prescription of glasses

11) Causes of headache and its management

12) Differentiate between acute iridocyclitis and acute angle closure glaucoma

13) Indications and procedure of saline wash of eyes

14) Protective mechanisms of eye

15) Cataract classification and its importance

III. Write short answers **10 x 2 =20**

16) Types of conjunctivitis

17) Triad for the diagnosis of primary open angle glaucoma

18) Four surgical procedures for glaucoma

19) Mention any 4 drugs to treat glaucoma

20) Night blindness

21) Mention any 4 antibiotics used in ophthalmology

22) Mention the various causes of red eye

23) Advantages of phacoemulsification over small incision cataract surgery

24) Chalazion

25) Various methods of drug administration

*****

PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
I Year Diploma in Medical Laboratory Technology/ II Year Certificate course in Medical Laboratory Technology
BIOCHEMISTRY

QP CODE - 2103

Time: 3 hrs   **Max. Marks: 90**

I. Long Essay - Answer any TWO   **2 x 10 = 20**

1) Define proteins; write functional classification of proteins with examples

2) Describe the principles, components and applications of spectrophotometer

3) Classify enzymes with examples; add a note on liver enzymes

II. Write short notes on any TEN   **10 x 5 = 50**

4) Effect of substrate concentration and pH on velocity of enzyme action

5) Centrifuge

6) Isoenzymes of lactate dehydrogenase

7) Simple lipids

8) Preparation of normal saline

9) Analytical balance

10) Functions of iron

11) Analytical errors

12) Hot air oven

13) Polysaccharides

14) Biohazards in the laboratory

15) What are buffers and how do they act?

III. Write short answers   **10 x 2 =20**

16) Indicators

17) Atomic weight

18) Millon's test

19) Normal solution

20) Alanine transaminase

21) Give two examples of unsaturated fatty acids

22) Draw a diagram and write uses of a funnel

23) Define acids, bases and give examples for the same

24) Functions of copper

25) Heat coagulation test

*****

QP CODE – 2111

Time: 3 hrs   **Max. Marks: 90**

I. Long Essay - Answer any TWO   **2 x 10 = 20**

1) Describe the functions of skin, liver, heart and kidney

2) Describe the multifactorial causation of diseases. Show diagrammatic representation of the epidemiological triad

3) What are the levels of prevention; discuss the modes of intervention of primary prevention

II. Write short notes on any TEN   **10 x 5 = 50**

4) Functions of blood

5) Salivary juice

6) Social defence

7) Joint family

8) Life span of RBC and its functions

9) Dimensions of health; discuss mental dimension

10) Primordial prevention

11) Individual responsibility towards health

12) Broken family and its effect on children

13) Ill-effects of alcoholism in the family

14) Elements of primary health care

15) Positive health

III. Write short answers   **10 x 2 =20**

16) Pancreatic hormones

17) Any three functions of lung

18) Role of family in a society

19) Is poverty a disease; explain.

20) Ecology

21) Blood groups

22) Members of the health team

23) Anthropology

24) Pandemic with example

25) Differences between disease elimination and disease eradication

*****

ANATOMY

QP CODE – 2122

Time: 1 ½ hrs   **Max. Marks: 45**

I. LONG ESSAY - ANSWER ANY TWO   2 x 10 = 20

1) Name the parts of the gastrointestinal system; write briefly on stomach

2) Name the parts of the central nervous system; write briefly on spinal cord

3) Name the parts of urinary system; write briefly on kidney

II. WRITE SHORT NOTES ON ANY THREE   5 x 3 = 15

4) Tongue

5) Paranasal sinuses

6) Synovial joint

7) Classification of bone with examples

III. WRITE SHORT ANSWERS   5 x 2 =10

8) Name 4 parts of brain

9) Name 4 cartilages of larynx

10) Name 3 salivary glands

11) Name 4 muscles of upper limb

12) Name 4 tarsal bones

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
I Year Diploma in Medical Records Technology/ II Year Certificate course in Medical Records Technology
ANATOMY, PATHOLOGY & MICROBIOLOGY
Note: Write section A and Section B in separate answer books
Section-A ANATOMY (O.S) (write in separate answer book)

QP CODE - 1008

Time: 3 hrs   **Max. Marks: 90**

I. LONG ESSAY – ANSWER ANY ONE   **1 x 10 = 10**

1) Name the parts of the gastrointestinal system; describe briefly the stomach

2) Name the parts of the urinary system and write briefly on urinary bladder

II. WRITE SHORT NOTES ON ANY FIVE   **5 x 5 = 25**

3) Trachea   7) Parotid gland

4) External features of heart   8) Ovary

5) Appendix   9) Name all the cranial nerves in order

6) Superolateral surface of cerebral hemispheres

II. WRITE SHORT ANSWER   **5 x 2 = 10**

10) Draw a labeled diagram of cell and its organelles 13) Name 4 tarsal bones

11) Name the parts of brainstem   14) Draw a labeled diagram of histology of

12) Name 4 muscles of upper limb   skeletal muscle

SECTION B – PATHOLOGY & MICROBIOLOGY (O.S) (write in separate answer book)

QP CODE - 1009

I. LONG ESSAY – ANSWER ANY ONE   **1 x 10 = 10**

1) Describe the preparation and staining of peripheral blood smear

2) Discuss in detail maintenance of medical records in pathology and microbiology

II. WRITE SHORT NOTES ON ANY FIVE   **5 x 5 = 25**

3) Widal test   6) Hanging drop test

4) Mantoux test   7) Papanicolaou stain

5) Sterilization   8) VDRL test

III. WRITE SHORT ANSWER   **5 x 2 = 10**

9) Normoblast

10) Name 4 culture media

11) Different parts of a microscope

12) Name 2 gram positive bacilli

13) Normal AEC and platelet count

PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
I Year Diploma in Medical Records Technology/ II Year Certificate course in Medical Records Technology
ANATOMY, PHYSIOLOGY, PATHOLOGY & MICROBIOLOGY (N.S)
Note: Write section A, Section B & Section C in separate answer books

Time: 3 hrs   Max. Marks: 90
Section- A, ANATOMY(Write in separate answer book)

QP CODE - 2142

I. LONG ESSAY – ANSWER ANY ONE   1 x 10 = 10
1) Draw a neat labeled diagram of female genital system; describe in brief about ovary
2) What is a joint; classify joints with examples
II. WRITE SHORT NOTES ON ANY TWO   2 x 5 = 10
3) Stomach
4) Long bone
5) Urinary bladder
III. WRITE SHORT ANSWER   5 x 2 = 10
6) Chambers of the heart   9) Name any two bones of upper limb
7) Name two endocrine glands   10) Skeletal muscle
8) Name parts of large intestine.
SECTION – B, PHYSIOLOGY (Write in separate answer book)

QP CODE - 2143

I. WRITE SHORT NOTES ON ANY FOUR   4 x 5 = 20
1) Structure and functions of skin   5) The function of testosterone in male reproductive system
2) Functions of CSF   6) Draw a neat labeled diagram of the female reproductive
3) Functions of Plasma proteins   system; mention its functions
4) Describe in brief pulmonary circulation of blood
II. WRITE SHORT ANSWER   5 x 2 = 10
7) Name any two forms of haemoglobin
8) Define cardiac output and mention any one factor affecting it
9) Define hypermetropia and its correction
10) List the normal constituents of urine
11) Name two features of cretinism
SECTION C– PATHOLOGY & MICROBIOLOGY (Write in separate answer book)

QP CODE - 2144

I. ANSWER ANY ONE   1 x 10 = 10
1) What is an anticoagulant? Write on anticoagulants used in the laboratory
2) Describe the different methods of sterilization
II. WRITE SHORT NOTES ON ANY TWO   2 x 5 = 10
3) Gram staining
4) Platelet count
5) Haemoglobin estimation
III. WRITE SHORT ANSWER   5 x 2 = 10
6) Name 4 gram positive organisms
7) Name 2 disinfectants used in the laboratory
8) Reticulocyte count
9) Methods of ESR estimation
10) Name two acid fast bacilli

I Year Diploma in Dental Mechanics / II Year Certificate course in Dental Mechanics
(Preliminary APPLIED)
PAPER – II (O.S)
QP CODE - 1015

Time: 3 hrs   Max. Marks: 75

I. LONG ESSAY   4 x 10 =40

1) Anatomy of maxillary canine

2) Classify articulators; write the principles and uses of mean value articulators

3) Define record base. Mention its functions and write the requirements of ideal record base

4) Discuss the limiting and supporting structures of mandibular dentures; add a note on lateral

   throat form

II. WRITE SHORT NOTES ON ANY SEVEN   7x 5 = 35

5) Sublingual seal area

6) Muscles of mastication

7) Midpalatine raphe

8) Temporomandibular joint

9) Rebasing

10) Bench curing

11) Types of posterior teeth

12) Incisive foramen

13) Inlay wax

*****

I Year Diploma in Dental Mechanics / II Year Certificate course in Dental Mechanics

APPLIED ORAL ANATOMY
PAPER – II (N.S)
QP CODE - 2172

Time: 1 ½ hrs   Max. Marks: 45

I. LONG ESSAY - ANSWER ANY ONE   1 x 10 = 10

1) Mention the parts of masticatory system and describe in detail about any one of them

2) Discuss in detail about the Temporomandibular joint

II. WRITE SHORT NOTES ON ANY FIVE   5 x 5 = 25

3) Tooth numbering systems

4) Maxillary central incisor

5) Class II occlusion

6) Muscles of tongue

7) Lateral pterygoid muscle

8) Posterior palatal seal area

9) Maxillary supporting systems

III. WRITE SHORT ANSWERS   5 x 2=10

10) Buccinator

11) Branches of facial nerve

12) Curve of Spee

13) Buccal shelf area.

14) Retromolar pad

*****

I Year Diploma in Dental Hygiene / II Year Certificate course in Dental Hygiene (Preliminary)
PAPER – II (O.S)
QP CODE - 1019

Time: 3 hrs   **Max. Marks: 75**

I. Answer the following   **5x 10=50**

1) Define periodonatal ligament; describe in detail functions of periodontal ligament

2) Define and classify analgesics; describe any one in detail

3) What is inflammation; describe in detail the stages of inflammation

4) What is dentinal hypersensitivity; add a note on desensitizing agents

5) Define gingiva; describe in detail morphological and histological features of gingiva

II. Write short notes on any FIVE   **5x 5 =25**

6) Alveolar bone

7) Cemetoenamel junction

8) Dental fluorosis

9) Periodontal pathogens

10) Antiseptics in dentistry

11) Chlorhexidine gluconate

*****

Note: Write section A & Section B in separate answer books

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

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

I. Long Essay (Answer any ONE)   **1x 9=9**

1) Define a tumour; discuss the differences between a benign and malignant tumour

2) Define infection; write in detail about the modes of transmission of infection

II. Write short notes on any FOUR   **4x 5 =20**

3) Leucoplakia

4) Epulis

5) Chemical sterilization

6) Oral candidiasis

7) Grams staining of dental plaques

III. Write short answers   **3 x2 =6**

8) Name two diplococci

9) Oral lesions in measles

10) Vincent's angina

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

I. Write short answers   **5 x 2 =10**

1) Chlorhexidine

2) Name two NSAIDS used in dentistry

3) Vitamin C

4) Write two uses of amoxicillin

5) Write the uses of local haemostats

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PARAMEDICAL BOARD, BANGALORE

Supplementary Examination, MAY 2014
I Year Diploma in OT Technology/ II Year Certificate course in OT Technology
BIOCHEMISTRY, PHARMACOLOGY AND MICROBIOLOGY
Note: Write Section A, B & C in separate answer books

Time: 3 hrs   Max. Marks: 90

SECTION –A, BIOCHEMISTRY (Write in separate answer book)

QP CODE - 2132

I. ANSWER ANY ONE   1 x 10 = 10

1) Discuss the regulation of blood glucose level.
2) Discuss the digestion and absorption of carbohydrates

II. WRITE SHORT NOTES ON ANY TWO   2 x 5 = 10

3) Write a note on the ornithine cycle
4) Inulin clearance
5) Formation of creatinine

III. WRITE SHORT ANSWERS   5 x 2 =10

6) Sulphosalicylic acid test for proteins   9) Mention the constituents of urine
7) Normal levels of s.amylase and s.lipase   10) Henderson-Hasselbach equation
8) What is hyponatraemia; write two causes

SECTION – B, PHARMACOLOGY (Write in separate answer book)

QP CODE - 2133

I. ANSWER ANY ONE   1 x 10 = 10

1) Classify local anaesthetics and mention the drugs used and complications of spinal anaesthesia
2) Classify fluoroquinolones; write the uses and adverse effects of ciprofloxacin

II. WRITE SHORT NOTES ON ANY TWO   2 x 5 = 10

3) Write the advantages and disadvantages of intravenous route of drug administration
4) Diazepam
5) Paracetamol

III. WRITE SHORT ANSWERS   5 x 2 =10

6) Name two intravenous inducing agents   9) Write two uses of metoclopromide
7) Write two uses of opioid analgesics   10) Mention the drugs used in anaphylactic shock
8) Write 2 uses of pantoprazole

SECTION – C, MICROBIOLOGY (Write in separate answer book)

QP CODE - 2134

I. ANSWER ANY ONE   1 x 10 = 10

1) Write in detail about the pathogenesis of diphtheria and add a note on its prophylaxis
2) Define and classify hypersensitivity; add a not on delayed type of hypersensitivity

II. WRITE SHORT NOTES ON ANY TWO   2 x 5 = 10

3) Membrane filters
4) Autoclave
5) Handwashing

III. WRITE SHORT ANSWERS   5 x 2 =10

6) Robert Koch
7) Sterilization of OT
8) Applications of dark ground microscopy
9) Waste disposal
10) Name 2 DNA viruses

PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
I Year Diploma in Dialysis Technology/ II Year Certificate course in Dialysis Technology
BIOCHEMISTRY & MICROBIOLOGY
<u>Note: Write Section A and B in separate answer books</u>

Time: 3 hrs   **Max. Marks: 90**

<u>SECTION- A, BIOCHEMISTRY (Write in separate answer book)</u>
QP CODE - 2153

I. ANSWER ANY ONE   **1 x 10 = 10**

1) Discuss the regulation of blood glucose levels
2) Describe the principle, parts, working and uses of the spectrophotometer

II. WRITE SHORT NOTES ON ANY FIVE   **5 x 5 = 25**

3) Write a short note on ornithine cycle
4) Principle and applications of pH meter
5) Formation of creatinine
6) Benzidine test
7) Energetics of glycolysis
8) Buffer solutions

III. WRITE SHORT ANSWERS   **5x 2 =10**

9) Sulphosalicylic acid test for proteins
10) Write the reference values for serum amylase and serum calcium
11) Define acids and bases
12) What is hypocalcaemia; mention 2 causes
13) Write two causes of metabolic acidosis

<u>SECTION – B, MICROBIOLOGY (Write in separate answer book)</u>
QP CODE - 2154

I. ANSWER ANY ONE   **1 x 10 = 10**

1) Define and classify sterilization; discuss in detail moist method of sterilization
2) Define nosocomial infection; list the organisms causing the same. Write a note on methods to control infection in dialysis unit

II. WRITE SHORT NOTES ON ANY FIVE   **5 x 5 = 25**

3) Candida albicans
4) Robert Koch
5) Passive immunity
6) Transmission of HIV
7) Falgella
8) Standard precautions

III. WRITE SHORT ANSWERS   **5x 2 =10**

9) Give two examples of active immunity
10) Name 2 intradermal tests
11) Name 2 chemical disinfectants
12) Name 2 acid-fast organisms
13) Name 4 anaerobic bacteria

****

Time: 3 hrs   **Max. Marks: 90**

I. Long Essay - Answer any FIVE   **5 x 12=60**

1) Definition, aetiology, clinical features and management of diabetes mellitus

2) What is infection of the central nervous system and how is it related to meningitis; explain the clinical features and management of meningitis

3) Explain the aetiology, clinical features and management of nephropathy

4) What is congenital heart disease; explain the clinical features and management of CHD

5) Explain the clinical features and management of anaemia

6) What is COPD; explain the clinical features and management of bronchitis

II. Write short note on any SIX   **6 x 5= 30**

7) Cholecystitis

8) Poliomyelitis

9) Kala azar

10) Tuberculosis

11) Rheumatic heart disease

12) Peripheral nerve lesions

13) Carcinoma of lungs

14) Peptic ulcer

*****

PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
II Year Diploma in Medical Laboratory Technology / III Year Certificate course in Medical Laboratory Technology
MICROBIOLOGY
QP CODE – 3103

Time: 3 hrs   **Max. Marks: 90**

I. Long Essay – Answer any TWO   **2 x 10=20**

1) Define and classify types of hypersensitivity reactions; explain type 1 hypersensitivity
2) Describe the laboratory diagnosis of enteric fever
3) Describe culture methods

II. Write short notes on any TEN   **10 x 5 =50**

4) Aspergillosis
5) Candidiasis.
6) VDRL test
7) Coombs test
8) ASLO test
9) Diseases produced by staphylococcus
10) Brucella agglutination test
11) Mantoux test
12) Microbiology laboratory waste management
13) Mechanisms of action of antibiotics
14) Life cycle of entamoeba histolytica
15) Prophylaxis of hepatitis

III. Write short answers   **10 x 2 = 20**

16) Draw a neat labeled diagram of hookworm ova
17) Transport media
18) Name two encapsulated organisms
19) Name two nematodes
20) Name two DNA viruses
21) Name two anaerobic culture media
22) Name two parasites causing anaemia
23) Name two opportunistic fungi
24) Name two urease positive organisms
25) Name two catalase positive organisms

*****

QP CODE - 3113

Time: 3 hrs   **Max. Marks: 90**

I. LONG ESSAY - ANSWER ANY TWO   **2 x 10 = 20**

1) Define Primary health care; discuss its principles. Describe the functions of secondary level hospitals
2) Enumerate voluntary health agencies in India; discuss the functions of Red Cross Society
3) Enumerate sources of health information systems; discuss census

II. WRITE SHORT NOTES ON ANY TEN   **10 x 5 = 50**

4) Maternal mortality rate
5) Hospital waste management
6) Disaster mitigation
7) Principles of health education
8) Functions of UNICEF
9) Public and private partnership
10) Cold chain
11) ESI benefits
12) Cancer prevention activities
13) Permanent family planning methods
14) Planning cycle
15) Steps in the investigation of an epidemic

III. WRITE SHORT ANSWERS   **10 x 2 =20**

16) Breakpoint in chlorination
17) Hand washing techniques
18) Sentinel surveillance
19) DDT
20) Indicators of air pollution
21) Food adulteration
22) Primordial prevention
23) Cyclops
24) Models in health management
25) Health education v/s counseling

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QP CODE – 1003

Time: 3 hrs   **Max. Marks: 90**

I. LONG ESSAY - ANSWER ANY TWO   **2 x 10 = 20**

1) Film screen radiograhy
2) What is a medico legal case? How do you maintain and procure medico legal records in radiology department?
3) Mammography procedure and standard views

II. WRITE SHORT NOTES ON ANY TEN   **10 x 5 = 50**

4) What is double contrast barium study
5) Elbow joint
6) What are scattered radiation
7) Types of xray films
8) Interactions of xrays with matter
9) Intensifying screens
10) Skin source distance
11) Views for lumbar spine
12) Draw xray tube
13) Indications for IVP
14) Dark room techniques
15) Piezoelectric crystals

III. WRITE SHORT ANSWERS   **10 x 2 =20**

16) Fistulogram
17) Macroradiography
18) Urograffin
19) Use of oral contrast agents
20) Lead barrier
21) Step wedge
22) Digital subtraction angiography
23) PNS views
24) Collimators
25) Filters

*****

PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
II Year Diploma in Medical X- Ray Technology/ III Year Certificate course in Medical X- Ray Technology
RADIOGRAPHY INCLUDING NEWER IMAGING TECHNOLOGY, (N.S) R-II
QP CODE – 3123

Time: 3 hrs Max.   **Marks: 90**

I. LONG ESSAY - ANSWER ANY TWO   **2 x 10 = 20**

1) Discuss the principles of CT scan; mention the different generations of CT scan machines
2) What is computerized radiography; discuss how it is different from conventional radiography
3) What is HSG; enumerate in detail the technique involved and its medical application

II. WRITE SHORT NOTES ON ANY TEN   **10 x 5 = 50**

4) Non-ionic contrast media
5) PACS system
6) Step down transformer
7) Dacryocystography
8) Intensifying screens
9) Axial view of shoulder
10) Optic foramen view
11) Full wave rectifier
12) Geiger Muller counter
13) Fixer
14) Ammeter
15) Xeroradiography

III. WRITE SHORT ANSWERS   **10 x 2 =20**

16) Lateral view of neck
17) Safe light
18) Timer mechanism
19) Gelatin
20) Latent image
21) Replenisher
22) Space charge
23) Focusing cup
24) Frog leg view
25) Skyline view of patella

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
II Year Diploma in Medical Records Technology/ III Year Certificate course in Medical Records Technology
COMPUTER SCIENCE
QP CODE – 3143

Time: 1 ½ hrs   **Max. Marks: 40**

I. LONG ESSAY - ANSWER ANY ONE   1 x 10 = 10

1) Draw a neat sketch of a computer, label the parts and mention its functions
2) What is a computer virus; discuss the various parts of the computer virus and how are computers protected against it

II. WRITE SHORT NOTES ON ANY FOUR   4 x 5 = 20

3) External storage devices
4) Types of printers.
5) Local area network
6) Hospital management software in MRD
7) Motherboard
8) Backup of data

III. WRITE SHORT ANSWERS   5 x 2=10

9) Saner
10) Monitor
11) Arithmetic logic unit.
12) Cordless mouse
13) Algorithm

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
II Year Diploma in Dental Hygiene / III Year Certificate course
in Dental Hygiene
Operating room Technique, Chair side Assts. & Dental Materials,
Ethics & Jurisprudence (N.S)
PAPER – III

QP CODE – 3183

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

I. Long essay   **1x 10=10**

1) Define sterilization and disinfection; write in detail the various methods of sterlization

II. Write short notes   **5 x 5 =25**

2) Code of ethics
3) Material maintenance and supply
4) Appointment and recall system
5) Role of social factors in dental progress
6) Role of dental hygienist in creating awareness about dental health

III. Write short answers   **2 x 5 = 10**

7) Sharpening stone
8) Medicolegal issues in dental practice
9) Procedures for arranging talks on oral health
10) Objectives of dentistry
11) Premedication

*****

PARAMEDICAL BOARD BANGALORE
Supplementary Examination, MAY 2014
Common paper for all I year Certificate Courses
BIOLOGY
(OLD & NEW SCHEME)
QP CODE 1103

Time: 1 ½ hrs   **Max. Marks: 45 New Scheme**

40 Old Scheme

I. LONG ESSAY - ANSWER ANY ONE   **1 x 10 = 10**

1) Draw a neat labeled diagram of heart and explain its working mechanisms

2) Draw a neat labeled diagram of nephron and write briefly on steps involved in the formation of urine

II. WRITE SHORT NOTES ON ANY FIVE   **5 x 5 = 25 (N.S)**
5 x 4 = 20 (O.S)

3) Carcinogens

4) Functions of placenta

5) Hormones secreted by anterior pituitary gland

6) Digestion of carbohydrates

7) Structure of graafian follicle

8) Mitosis

9) Mechanism of breathing

III. WRITE SHORT ANSWERS   **5 x 2=10**

10) Heart sounds

11) Name two diseases caused by bacteria

12) Types of cell division

13) Treatment of cancer

14) Name two tests used in the detection of proteins

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
I D.P.T – MICROBIOLOGY
QP CODE – 2194

Time: 3 hrs   **Max. Marks: 90**

I. Long Essay - Answer any two   **2 x 10 = 20**
1) Define immunity. Write in detail about passive immunity.
2) Name the organisms causing meningitis. Discuss the lab diagnosis of bacterial meningitis
3) Draw a neat labeled diagram of HIV virus; discuss its modes of transmission

II. Write short notes on any ten   **10 x 5 = 50**
4) Pasteurization
5) Modes of transmission of infection
6) Coagulase test
7) Bacterial cell wall
8) MRSA
9) Universal precautions
10) Koch's postulates
11) Inclusion bodies
12) Widal test
13) Food poisoning
14) Ziehl-Neelsen stain
15) Transport media

III. Write short answers   **10 x 2 =20**

16) BCG vaccination
17) Name two spore forming bacteria
18) Name 4 organisms causing urinary infection
19) Name two motile bacteria
20) Name two RNA viruses
21) Name two gram positive bacilli
22) Name two live vaccines
23) Name 4 laboratory animals
24) Name 4 bacteria that cause swarming
25) Name two non-lactose fermenters

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
III D.P.T – DISABILITY EVALUATION & COMMUNITY PHYSIOTHERAPY
QP CODE – 3203

Time: 2 hrs   **Max. Marks: 65**

I. Long Essay - Answer any FOUR   **4 x 10 =40**

1) Explain the duties and responsibilities of physiotherapist in disability evaluation

2) Define prosthesis and orthotics; what are the aims and principles for its manufacture

3) What are postural and fixed deformities. Describe the evaluation strategies for locomotor disorders

4) How do you grade disability in an amputation and paralysis patient? Describe community physiotherapy for amputation and paralysis patients

5) Describe the physiotherapy management for the polio affected children

II. Write short notes on any five   **5 x 5 = 25**

6) Social education for disability

7) Walking aids

8) Congenital deformities

9) Industrial hazard rehabilitation

10) Occupation therapy and ADL training

11) HKAFO

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
I Year Diploma in Medical Laboratory Technology/ II Year Certificate course in Medical Laboratory Technology
PATHOLOGY
QP CODE – 2104

Time: 3 hrs   **Max. Marks : 90**

I. Long Essay - Answer any TWO   **2 x 10 = 20**
1) Describe the morphology of normal and abnormal erythrocytes and leucocytes
2) Write in detail about the various steps involved in histopathology tissue processing; add a note on automated tissue processors
3) Describe the different methods of collection of sample and various fixatives used in cytopathology; add a note on preparation of smears

II. Write short notes on any TEN   **10 x 5 = 50**
4) WBC counting method
5) Tissue embedding
6) Decalcification.
7) Reticulocyte count
8) Quality control in haematology
9) Microtome
10) Various components of blood
11) Anticoagulants used in haematology
12) Urine microscopy
13) Peripheral smear fixation and staining
14) Fixative used in histopathology
15) Sahli's methods of haemoglobin estimation

III. Write short answers   **10 x 2 =20**
16) Ketonuria
17) WBC diluting fluid
18) Bouin's fluid
19) Two tests for proteinuria
20) Leucart's L piece
21) ESR tubes
22) Two urine preservatives
23) Leishman stain
24) Body fluids in cytology
25) Blood indices

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Time: 3 hrs   **Max. Marks: 90**

I. Long Essay - Answer any TWO   **2 x 10 = 20**

1) Mention the water borne diseases; discuss the quality of drinking water
2) Mention the symptoms of iodine deficiency disorder; discuss its control measures
3) Mention the parasitic diseases in humans; discuss the life-cycle of malarial parasites

II. Write short notes on any TEN   **10 x 5 = 50**

4) Visible and invisible fats
5) Essential fatty acids
6) Dietary fibres
7) Food supplementation
8) Nutritional value of milk
9) Weekly supplementation of iron and folic acid
10) Personal hygiene and health
11) Break point chlorination
12) Comfort zone
13) Housing standards
14) First aid for shock
15) Mass drug administration for filariasis

III. Write short answers   **10 x 2 =20**

16) Sources of carbohydrates
17) DDT
18) Smog
19) Transmission of dengue
20) Bitot spots
21) Oxidation pond
22) Rat control
23) LBW
24) RCA latrine
25) Sulabh sauchalaya

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
I Year Diploma in Medical X- Ray Technology/ II Year Certificate course in Medical X- Ray Technology
PHYSIOLOGY
QP CODE - 2123

Time: 1 ½ hrs   **Max. Marks: 45**

I. LONG ESSAY - ANSWER ANY ONE   **1 x 10 = 10**

1) Describe the composition and functions of gastric juice
2) Name the hormones of pituitary gland. Describe in detail the action of oxytocin hormone in females

II. WRITE SHORT NOTES ON ANY FIVE   **5 x 5 = 25**

3) Mention the functions of skin
4) Write the function of testis
5) With a neat labeled diagram, mention the functions of nephron
6) Write the composition and functions of cerebrospinal fluid
7) Mention the properties and composition of normal urine
8) Mention the functions of middle ear
9) Write a short note on ECG

III. WRITE SHORT ANSWERS   **5 x 2 =10**

10) Define inspiratory reserve volume and give is normal value
11) Name two ascending tracts of spinal cord
12) Give any two functions of pancreatic juice
13) Name any two contraceptive measures for males
14) Give normal values of blood cells

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
I Year Diploma in Medical Records Technology/ II Year Certificate course in Medical Records Technology
HOSPITAL STATISTICS & BIOSTATISTICS
QP CODE – 2145

Max. Marks: 90

I. LONG ESSAY   **4 x 10 = 40**

1) Enumerate fertility indicators; add a not on NRR
2) What are the types of sampling? Discuss systematic random sampling in detail
3) What is proportional mortality rate? Add a note on the notification of diseases
4) How do you assemble medical records? How do you check and control incomplete records?

II. WRITE IN BRIEF ON ANY TEN   **10 x 4 = 40**

5) Basic purpose of death reports
6) Student-T test
7) Importance of denominator
8) Define prevalence and ratio
9) Record linkage
10) Regression
11) Sample registration system
12) Laboratory statistics
13) Measures of central tendency
14) Bed turnover interval
15) Alpha card index

IV) WRITE BRIEFLY ON ANY FIVE   **5 x 2=10**

16) Admission and discharge.
17) Pie chart
18) Infant mortality rate
19) Probability
20) Crude birth rate
21) Standard error

PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
I Year Diploma in Dental Hygiene / II Year Certificate course in Dental Hygiene
GENERAL BIOCHEMISTRY & RADIOLOGY

Note: Write section A & Section B in separate answer books

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

Section- A, GENERAL BIOCHEMSITRY (write in separate answer book)

QP CODE – 2185

I. Long Essay – Answer any ONE   **1x 10=10**

1) Describe the sources, daily requirements, biochemical functions and deficiency manifestations of calcium
2) Describe the effects of malnutrition on oral health

II. Write short notes on any THREE   **3 x 5 =15**

3) Special diet in case of maxillofacial injury cases
4) Fluoride
5) Scurvy
6) Mucopolysaccharides

Section-B, RADIOLOGY (write in separate answer book)

QP CODE - 2186

I. Write short notes   **4 x 5 =20**

1) Bisecting angle technique
2) Intraoral periapical x-ray
3) O.P.G.
4) Hazards of radiation and protection against it

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
I Year Diploma in O.T Technology/ II Year Certificate course in O.T Technology
ANATOMY AND PHYSIOLOGY
Note: Write Section A & B in separate answer books

Time: 3 hrs   Max. Marks: 90

SECTION –A, ANATOMY (Write in separate answer book)
QP CODE – 2135

I. LONG ESSAY - ANSWER ANY ONE   1 x 10 = 10

1) Name the parts of respiratory system; write briefly on right lung
2) Name the parts of central nervous system; write briefly on cerebrum

II. WRITE SHORT NOTES ON ANY FIVE   5 x 5 = 25

3) Urinary bladder   6) Right kidney
4) Trachea   7) Thyroid gland
5) Testis   8) Hyaline cartilage

III. WRITE SHORT ANSWERS   5 x 2 =10

 9) Name parts of urinary system
10) Name 4 muscles of lower limb
11) Name 4 bones of upper limb
12) Name 2 histological differences between skeletal and cardiac muscle
13) Name 4 parts of eye

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

I. LONG ESSAY - ANSWER ANY ONE   1 x 10 = 10

1) Define erythropoesis; with a neat labeled diagram, describe the stages of erythropoesis
2) Name the anterior pituitary hormones; describe the functions of growth hormone

II. WRITE SHORT NOTES ON ANY FIVE   5 x 5 = 25

3) Menstrual cycle   6) Functions of kidney
4) Heart sounds   7) Functions of oxytocin
5) Transport of carbon dioxide in blood   8) Draw a neat labeled diagram of neuron

III. WRITE SHORT ANSWERS   5 x 2 =10

 9) Write the normal values of Hb and PCV
10) Write the normal values of stroke volume and cardiac output
11) Name any two contraceptive methods in females
12) Name any two functions of oestrogen
13) Name any two muscles of inspiration

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
I Year Diploma in Dialysis Technology/ II Year Certificate course in Dialysis Technology
ANATOMY AND PHYSIOLOGY
Note: Write Section A & B in separate answer books

Time: 3 hrs   Max. Marks: 90

SECTION –A, ANATOMY (Write in separate answer book)
QP CODE – 2155

I. LONG ESSAY - ANSWER ANY ONE   **1 x 10 = 10**
1) Name the parts of gastrointestinal system; write briefly on liver
2) Name the parts of the urinary system; write briefly on kidney

II. WRITE SHORT NOTES ON ANY FIVE   **5 x 5 = 25**
3) Trachea   6) Bronchopulmonary segments of left lung
4) Pituitary gland   7) Skin
5) Transverse section of compact bone   8) Transitional epithelium

III. WRITE SHORT ANSWERS   **5 x 2 =10**
 9) Name 4 cartilages of trachea
10) Name 4 muscles of lower limb
11) Name 4 parts of eye
12) Name 4 ligaments of uterus
13) Name 4 lymphatic tissues

SECTION- B, PHYSIOLOGY (Write in separate answer book)
QP CODE – 2156

I. LONG ESSAY - ANSWER ANY ONE   **1 x 10 = 10**
1) What is erythropoesis? Describe its stages with a neat labeled diagram
2) Define blood pressure; explain in detail factors affecting blood pressure

II. WRITE SHORT NOTES ON ANY FIVE   **5 x 5 = 25**
3) Describe morphological classification of anaemia
4) Explain the structure of nephron with a neat labeled diagram
5) Functions of blood
6) Describe the role of urea in concentrating urine
7) Define pulse; mention the factors affecting pulse pressure
8) AV nodal delay
9) Classify body fluid compartments and mention their normal values

III. WRITE SHORT ANSWERS   **5 x 2 =10**

10) Bombay blood group
11) Name any two functions of plasma proteins
12) Name any two excretory functions of kidney
13) Name 4 blood group systems
14) Write the normal values of haemoglobin in blood

Time: 3 hrs   **Max. Marks: 90**

I. Long Essay - Answer any TWO   **2 x 15=30**

1) What is appendix; write in detail the management of appendicitis
2) How do you classify burns; discuss the treatment of different types of burns
3) Discuss the clinical features and management of head injury

II. Write short notes any THREE   **3 x 5= 15**

4) Tendon transfer
5) Hydrocephalus
6) Vascular diseases
7) Oesophagitis

III. Answer any TWO   **2 x 15= 30**

8) Describe the clinical features and management of patellar fractures
9) Describe the clinical features and management of CABG
10) Describe the clinical features and management of osteomyelitis and bone tumours

IV. Write short notes on any THREE   **3 x 15= 15**

11) Muscular dystrophy
12) Rickets
13) Thoracotomy
14) Pathological fractures

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
II Year Diploma in Medical Records Technology/ III Year Certificate course in Medical Records Technology
MEDICAL AND SURGICAL CODING
QP CODE – 3144

Time: 1 hr   **Max. Marks: 20**

ANSWER ANY FOUR QUESTIONS   **4 x 5 = 20**

1) State the differences between ICD-9 and ICD-10

2) Explain the procedure for selection of underlying cause of death for mortality tabulation

3) Explain the procedure of coding malignant conditions.

4) Expand the following: AION, ICSOL, PCOD, PEOP, JRA

5) Write briefly about advantages of coding of diseases

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PARAMEDICAL BOARD BANGALORE
Supplementary Examination, MAY 2014
Common paper for all I year Certificate Courses
ENGLISH
(OLD & NEW SCHEME)
QP CODE 1104

Time: 1 ½ hrs   **Max. Marks: 45 (New Scheme)**
                                              40 (Old Scheme)

I. WRITE AN ESSAY ON ANY ONE OF THE FOLLOWING   **1 x 15 = 15**
                                                                      1 x 10 = 10

1) Education of the girl child

2) Medical aid for the poor

II. ANSWER ANY ONE   **1 x 10 = 10**

3) Write a letter to the District Health Officer explaining the need to have a Primary Health
   centre in your area

4) Write a letter to your friend informing about your preparation for ensuing exams

III. WRITE THE OPPOSITE GENDER OF THE FOLLOWING   **5 x 1 =5**

5) Nephew   6) Tiger   7) Mayor   8) Servant   9) Widow

IV. WRITE THE PLURAL OF

10) Leaf   11) Wife   12)Child   13)Self   14)Calf

V. WRITE THE OPPOSITE OF THE FOLLOWING   **5 x 1 =5**

15) Far   18) Empty
16) Hard   19) Generous
17) Dynamic

V. MAKE THE SENTENCES USING THE FOLLOWING   **5 x1 = 5**
20) Look into
21) Take over
22) Make good
23) However
24) Either-or

VI. FILL IN THE BLANKS   **5 x 1 =5**
25) Ramu sat _____ the corner
26) He complains _____ a headache
27) Children _____ playing cricket
28) The sun _____ the east
29) A hard nut _____ crack   ***********

PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
I D.P.T – PSYCHOLOGY
QP CODE – 2195

Time: 3 hrs   **Max. Marks: 90**

I. Long Essay - Answer any THREE   **3 x 15 =45**

1) Describe the nature, origin and development of human behavior
2) Describe the evolution of psychology with importance to branches of psychology
3) What is perception; describe the theories of perception
4) Describe neuropsychological tests and their principles

II. Answer any THREE   **3 x 10 = 30**

5) Explain theories of remembering and forgetting; how do you measure memory?
6) What are the different forms of thinking; what do you understand by problem solving?
7) As a physiotherapist, how do you use psychological principles in pain reduction?
8) Define personality and theories of personality

III. Answer any FIVE   **5 x 3 =15**

 9) Id, ego and superego
10) Motivation and emotions
11) Prejudice
12) Creative thinking
13) Generalization and discrimination
14) Negative transfer in learning
15) Illusion and hallucination

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
III D.P.T –PHYSIOTHERAPY IN MEDICAL CONDITIONS
QP CODE – 3204

Time: 3 hrs   **Max. Marks: 90**

I. Long Essay - Answer any FIVE   **5 x 12 =60**

1) Explain the physiotherapy management of GB syndrome
2) Explain the physiotherapy management of rheumatoid arthritis
3) Describe the assessment and PT management of bronchial asthma
4) Discuss the assessment and PT management of cerebral palsy
5) Describe the abnormalities of hand function and their PT management
6) Explain sensory motor integration in management approaches

II. Write short notes on any five   **5 x 6 = 30**

7) Transient ischaemic attack
8) Claw hand
9) Sensory motor assessment
10) Congenital heart disease
11) Gower's sign and management
12) Nerve conduction testing

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Time: 3 hrs   **Max. Marks: 90**

I. LONG ESSAY - ANSWER ANY TWO   **2 x 10 = 20**

1) Classify WBCs; describe the functions of WBCs
2) Name the female sex hormones; write the actions of oestrogen
3) Draw, label and describe different parts of nephron

II. WRITE SHORT NOTES ON ANY TEN   **10 x 5 = 50**

4) Blood groups
5) Heart sounds
6) Hypoxia
7) Functions of saliva
8) Insulin
9) Spermatogenesis
10) Errors of refraction
11) Neuromuscular junction
12) Anticoagulants
13) Lung volumes
14) Cardiac output
15) Anaemia

III. WRITE SHORT ANSWERS   **10 x 2=20**

16) Name two types of haemoglobin
17) Name two plasma proteins
18) Name two pathological constituents of urine
19) Name two posterior pituitary hormones
20) Name any two family planning methods in males
21) Name two functions of skin
22) Write the normal values of heart rate and BP
23) Name two functions of CSF
24) Name two functions of cerebellum
25) Name two artificial methods of respiration

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
I Year Diploma in Medical Laboratory Technology/ II Year Certificate course in Medical Laboratory Technology
MICROBIOLOGY
QP CODE – 2105

Time: 3 hrs   **Max. Marks: 90**

I. LONG ESSAY – ANSWER ANY TWO   **2 x 10 = 20**

1) Write in detail about washing and packing of materials in microbiology lab
2) Define and classify culture methods; add a note on antibiotic susceptibility
3) Define and classify sterilization; write in detail about hot air oven

II. WRITE SHORT NOTES ON ANY TEN   **10 x 5 = 50**

4) Tyndallization
5) Bacterial capsule
6) Louis Pasteur
7) Membrane filter
8) Widal test
9) Anaerobic cultivation
10) Blood agar ingredients, preparation and uses
11) Robertson cooked meat broth
12) Light microscopy and its handling
13) Active immunity
14) IgM antibody
15) Preparation of Grams Stain

III. WRITE SHORT ANSWERS   **10 x 2 =20**

16) Inspissation
17) Catalase test
18) Name two bacterial vaccines.
19) Name two transport media
20) Name two acid fast organisms
21) Name two exotoxins
22) Name two gaseous disinfectants
23) Incineration
24) Define and classify immunity
25) Name two flagellated organisms

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
I Year Diploma in Health Inspector/ II Year Certificate course in Health Inspector
PAPER – III
QP CODE – 2113

Time: 3 hrs   **Max. Marks: 90**

I. Long Essay - Answer any TWO   **2 x 10 = 20**

1) Explain the following: eradication, specificity, pandemic, incidence
2) What is screening; mention the uses and criteria for screening
3) List the different modes of transmission, explain direct transmission in detail

II. Write short notes on any TEN   **10 x 5 = 50**

4) Antilarval measures
5) VVM
6) National immunization schedule
7) Iceberg phenomenon
8) Health promotion
9) Indirect transmission
10) Histogram
11) Measles vaccine
12) Rat flea
13) Health advice to travelers
14) Droplet infection
15) Differences between screening and diagnostic tests

III. Write short answers   **10 x 2 =20**

16) Active immunity
17) Sensitivity
18) Median
19) Odds ratio
20) Reservoir
21) Secondary attack rate
22) Susceptible host
23) Hepatitis B vaccine
24) Index case
25) Epidemiological triad

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PARAMEDICAL BOARD, BANGALORE
Supplementary Examination, MAY 2014
I Year Diploma in Medical X- Ray Technology/ II Year Certificate course in Medical X- Ray Technology
PATHOLOGY
QP CODE – 2124

Time: 1 ½ hrs   **Max. Marks: 45**

I. LONG ESSAY - ANSWER ANY ONE   **1 x 10 = 10**

1) Define inflammation; write the differences between acute and chronic inflammation; mention the cardinal signs of inflammation
2) Define and classify shock; discuss septic shock

II. WRITE SHORT NOTES ON ANY FIVE   **5 x 5 = 25**

3) Sequestrum
4) Pulmonary oedema
5) Nasal polyp
6) Polycystic kidney
7) Intestinal ulcer- types
8) Gallstones
9) Goitre

III. WRITE SHORT ANSWERS   **5 x 2 =10**

10) What is atrophy; give two examples
11) Types of fracture
12) Meaning of carcinoma and sarcoma
13) Cold abscess
14) Types of emboli

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