II Year B.P.T. Degree Examination - SEP-2017

Time: 3 Hours

Max. Marks: 40 Marks

Pathology (RS-5) Q.P. Code: 2737

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

(Note: Both QP Codes 2737 and 2738 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One)

1 x 10 = 10 Marks

Define and classify cirrhosis. Discuss alcoholic liver disease.

(2+2+6)

2. Define edema. Discuss etiopathogenesis of edema. Discuss renal edema.

(2+4+4)

SHORT ESSAYS (Answer any Four)

4 x 5 = 20 Marks

- 3. Etiopathogenesis and types of pathological calcification with examples
- Define metaplasia with examples.
- Classification and microscopy leprosy.
- 6. Morphology of osteosarcoma
- 7. Etiopathogenesis and microscopy of Hashimoto's thyroiditis

SHORT ANSWERS

 $5 \times 2 = 10 Marks$

- 8. Types of emphysema
- 9. Mention three laboratory diagnosis of Beta-Thalassaemia.
- 10. Cardinal signs of inflammation
- 11. Four examples of congenital heart diseases
- Classify bleeding disorders.

II Year B.P.T. Degree Examination - SEP-2017

Time: 3 Hours

Max. Marks: 40 Marks

Microbiology (RS-5) Q.P. Code: 2738

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

(Note: Both QP Codes 2737 and 2738 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One)

1 x 10 = 10 Marks

- 1. Define and classify sterilization. Give a detailed account of moist heat methods of sterilization.
- 2. Enumerate the viruses causing hepatitis. Write in detail about the pathogenicity and laboratory diagnosis of hepatitis B virus.

SHORT ESSAYS (Answer any Four)

4 x 5 = 20 Marks

- 3. Normal flora of the human body
- 4. Bacterial growth curve
- 5. Determinants of antigenicity
- 6. Clinical manifestation of staphylococcus aureus
- 7. Prophylaxis of polio

SHORT ANSWERS

 $5 \times 2 = 10 Marks$

- 8. Name any two capsulated bacteria.
- 9. Name any two biological vectors.
- RNTCP of tuberculosis (Revised National Tuberculosis Control Programme)
- 11. Name any two superficial fungal infections.
- 12. Name any two opportunistic infections in AIDS.

II Year B.P.T. Degree Examination - SEP-2017

Time: Three Hours

Max. Marks: 80 Marks

Pharmacology (RS-5) Q.P. CODE: 2739

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

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

- 1. Classify antiepileptic drugs and explain about Phenytoin.
- 2. Classify oral hypoglycemic and explain about Metformin.
- 3. Drugs used in treatment of Gout

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

- 4. Salbutamol
- 5. Treatment for allergic rhinitis
- 5. Insulin
 - 7. Bisacodyl
 - 8. Biotransformation
 - 9. ACE inhibitors
 - 10. Treatment for Myasthenia gravis
 - 11. Tricyclic antidepressants
 - 12. Diazepam
- 13. Phenobarbitone

SHORT ANSWERS

10 x 2 = 20 Marks

- 14. Adverse effects of glucocorticoids
- 15. Name any four drugs causing orthostatic hypotension as adverse effects in geriatrics.
- 16. Name any four drugs increasing the risk dementia in geriatrics.
- 17. Name any four drugs interacting with NSAID.
- Name any two uses and adverse effects of digoxin.
- 19. Tachyphylaxis
- 20. Teratogenic drugs
- 21. Placebo
- 22. Name any two uses and adverse effects of Atorvastatin.
- 23. Styptics

II Year B.P.T Degree Examination – SEP-2017

Time: Three Hours

Max. Marks: 100 Marks
(ercise Therapy (RS-5)

Exercise Therapy (RS-5) Q.P. CODE: 2740

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

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

- 1. What are aerobic exercises? Explain the principles of aerobic exercise training and its effect on cardiovascular system.
- 2. Describe the physiology of balance and the components of balance.
- 3. Explain relaxation and write about Jacobson's relaxation.

SHORT ESSAYS (Answer any Twelve)

12 x 5 = 60 Marks

- 4. Explain the types of suspension therapy.
- 5. Explain the ATP-PCr system during exercise.
- 6. List out starting positions. Explain any one starting position with the muscle activity.
- 7. Write about open chain and closed chain exercise.
- 8. Advantages and disadvantages of group exercises
- 9. Use of Frenkles exercise and its progression
- 10. Merits and demerits of Hydrotherapy
- 11. Write about mat exercises.
- 12. Indications and contraindications of joint mobilization
- 13. Principles and technique of Free exercises
- 14. What is progressive resisted exercise? Explain oxford technique.
- 15. Technique of Goniometric measurement for Ankle Joint
- 16. Write in brief about concentric and eccentric exercise with examples.
- 17. Write in brief about the angle of pelvic inclination.

SHORT ANSWERS

10 x 2 = 20 Marks

- 18. Define stride length.
- 19. Isokinetic exercises
- 20. BRIME
- 21. Gutter Crutch
- 22. Define equilibrium.
- 23. SAID principle
- 24. 10RM
- 25. Vo2 Max
- 26. Active and inactive posture
- 27. Two tests for inco-ordination

MGM'S

INSTRUTE OF PHYSIOTHERAPY, LERARY

II Year B.P.T Degree Examination - SEPT 2017

Time: Three Hours

Max. Marks: 100 Marks

Electrotherapy (RS-5) Q.P. CODE: 2741

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

LONG ESSAYS (Answer any Two)

 $2 \times 10 = 20 \text{ Marks}$

- 1. What is Piezzo electric effect? Describe the production of ultrasound with a neat diagram. Mention the indications and contraindications of ultrasound.
- 2. Describe the production of LASER. Write a note on the dosage of LASER.
- 3. Describe the production of IRR. Add a note on dosage and dangers of IRR.

SHORT ESSAYS (Answer any Twelve)

 $12 \times 5 = 60 \text{ Marks}$

- 4. Cavitation in ultrasound
- 5. Describe the cable method of SWD.
- . Physiological and therapeutic effects of MWD
- 7. Explain the principle of biofeedback.
- 8. Mechanism of propagation of action potential
- 9. Indications and contraindications of IRR
- 10. Physiological and therapeutic effects of UVR
- 11. Methods of application of wax
- 12. Placement and spacing in SWD
- 13. Principles of fluidotherapy
- 14. Therapeutic uses and contraindications of Moist heat therapy
- 15. Indications and contraindications of contrast bath
- 16. Electrode placement in IFT
- 17. Dosage of TENS

"YORT ANSWERS

 $10 \times 2 = 20 \text{ Marks}$

- 18. What is standing wave in ultrasound?
- 19. What is magnetron?
- 20. Define Rheobase and Chronaxie.
- 21. What is attenuation?
- 22. Methods of application of wax bath
- 23. Name dangers of UVR
- 24. FG test
- 25. Beat frequency in IFT
- 26. Accommodation
- 27. Sinusoidal current

II Year B.P.T. Degree Examination - SEP-2017

Time: 3 Hours

Max. Marks: 40 Marks

Pathology Q.P. Code: 2708

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

(Note: Both QP Codes 2708 and 2709 are to be answered within total duration of 3 hours)
LONG ESSAYS (Answer any One)

1 x 10 = 10 Marks

- 1. Define anaemia. Classify anaemia and write laboratory diagnosis of Iron deficiency anaemia.
- 2. Define inflammation. Discuss vascular and cellular events in acute inflammation.

SHORT ESSAYS (Answer any Four)

4 x 5 = 20 Marks

- 3. Causes of edema
- 4. Atrophy and hypertrophy
- 5. Tuberculous arthritis
- 6. Osteoporosis
- 7. Thrombosis

SHORT ANSWERS

 $5 \times 2 = 10 \text{ Marks}$

- 8. Rickets
- 9. Exudates
- 10. Name four hemoparasites.
- 11. Virchow's triad
- 12. HIV modes of transmission

II Year B.P.T. Degree Examination - SEP-2017

Time: 3 Hours

Max. Marks: 40 Marks

Microbiology Q.P. Code: 2709

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

(Note: Both QP Codes 2708 and 2709 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One)

1 x 10 = 10 Marks

- Define and classify sterilization. Write about autoclave.
- Draw neat, labeled diagram of HIV. Write about laboratory diagnosis of HIV-AIDS.

SHORT ESSAYS (Answer any Four)

 $4 \times 5 = 20 \text{ Marks}$

- Laboratory diagnosis of streptococcal infections
- 4. Normal flora of body
- 5. Gas gangrene
- 6. Iq A.
- 7. Bacterial growth curve

SHORT ANSWERS

5 x 2 = 10 Marks

- 8. Cytopathic effects
- 9. Name four zoonotic diseases.
- 10. Name four fungi causing deep mycoses.
- 11. Significant bacteriuria
- 12. Plasmodium falciparum complications

II Year B.P.T. Degree Examination - SEP-2017

Time: Three Hours

Max. Marks: 80 Marks

PHARMACOLOGY (RS - 3 & RS - 4)

Q.P. CODE: 2710

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

LONG ESSAYS (Answer any Two)

 $2 \times 10 = 20 \text{ Marks}$

- Classify skeletal muscle relaxants. Write the action, uses and adverse effects of centrally acting agents
- Enumerate Glucocorticoids. Mention the uses and long term adverse effects of prednisolone.Add a note on HPA axis suppression
- 3. Classify antianginal drugs. Describe the actions uses and adverse effects of nitroglycerine

SHORT ESSAYS (Answer any Eight)

 $8 \times 5 = 40 \text{ Marks}$

- 4. Drug tolerance with examples
- 5. Cardio selective Beta-blockers
- 6. Inhalational bronchodilators
- 7. Anabolic steroids
- Cardiac glycosides
- 9. Phase I biotransformation
- 10. Drugs for chronic Gout
- 11. Proton pump inhibitors
- 12. Levodopa
- 13. ACE inhibitors

SHORT ANSWERS

10 x 2 = 20 Marks

- 14. Mention two drugs for myasthenia gravis
- 15. Name two adverse effects of phenytoin
- 16. Mention two emergency uses of adrenalin
- 17. Define drug synergism with one example
- 18. Give two examples for drugs acting by inhibiting an enzyme
- 19. Mention two drugs causing parkinsonism
- 20. What is teratogenesis? Give one example
- 21. Write the treatment for status epilepticus
- 22. Mention two uses of Thiazide diuretics
- 23. Mention two drugs to prevent osteoporosis

II Year B.P.T. Degree Examination - SEP-2017

Time: Three Hours

Max. Marks: 100 Marks

EXERCISE THERAPY

(RS - 3 & RS - 4)

Q.P. CODE: 2711

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

LONG ESSAYS (Answer any Two)

- Classify the techniques of Massage. Give the physiological effects of Massage. Describe 2.
- Give the principles of MMT. Explain methods of assessment of deltoid from Grade 2 5. 3.
- List the principles of hydrotherapy. Describe each in detail with examples.

SHORT ESSAYS (Answer any Twelve)

 $12 \times 5 = 60 \text{ Marks}$

- Enumerate 5 starting positions. Describe in detail any ONE. 5.
- Explain the types of aerobic training.
- 6. List types of walking aids. Explain two in detail.
- Enumerate types of trick movements. Describe any one in detail. 7.
- 8. Explain the various types of goniometers used.
- Define types of posture. Give principles of postural re-education. 9.
- Give the types of passive movements with examples. 10.
- 11. Explain the principles and uses of relaxation.
- Give the advantages of MMT. 12.
- Explain use of axial suspension for knee joint. 13.
- Describe 5 methods to mobilize a stiff joint. 14.
- Explain the therapeutic effects of massage. 15.
- Describe the principles of PNE techniques. 16.
- Describe measurement of apparent length. 17.

SHORT ANSWERS

 $10 \times 2 = 20 \text{ Marks}$

- Give the importance of measuring pelvic inclination. 18.
- Give 2 uses of resistance exercise. 19.
- 20. Describe any one asana with example.
- 21. Define the term BRIME.
- 22. Advantages of group exercise (any two).
- Give 2 contraindications for active exercise. 23.
- List 2 uses of balance training. 24.
- Give 2 tests of in -coordination. 25.
- Give 2 contraindications of massage. 26
- What is dynamic power test? 27

II Year B.P.T. Degree Examination - SEPT 2017

Time: Three Hours

Max. Marks: 100 Marks

(RS-3 & RS-4)

Q.P. CODE: 2712

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

LONG ESSAYS (Answer any Two)

 $2 \times 10 = 20 \text{ Marks}$

- 1. Describe the physiological effects and therapeutic uses of ultra sound.
- 2. Write in detail the principles of production of UVR?
- 3. Classify TENS. Write in detail the mechanism of pain relief for various types of TENS?

SHORT ESSAYS (Answer any Twelve)

 $12 \times 5 = 60 \text{ Marks}$

- Therapeutic effects of microwave diathermy.
- 5. Method of application of ultrasound.
- 6. Indication and contraindication for shortwave diathermy.
- 7. Physiological and therapeutic effects of wax bath.
- 8. Define condenser. Explain types and uses.
- 9. Construction of EMG equipment.
- 10. Dangers and precaution for LASER.
- 11. Faradism under pressure.
- 12. Indications and contraindications of infra red radiations.
- 13. Electrode placement of INTERFERENTAL THERAPY.
- 14. Properties of electromagnetic radiations.
- 15. Define burns give an account of prevention.
- 16. Moist heat therapy.
- 17. Bio-feed back.

SHORT ANSWERS

10 x 2 = 20 Marks

- 18. What is chronaxie?
- 19. Classify Laser.
- 20. Micro massage.
- 21. Types of nociceptors.
- 22. Define Ohm's law.
- 23. What is latent heat?
- 24. Define monochromocity.
- 25. What is coupling media?
- 26. Two indications of cryotherapy.
- 27. Define depolarization.

INSTITUTE OF PHYSICTHERAPY, LIBRARY AUSTROLE AURANGA BAD.

II Year B.P.T. Degree Examination - SEP-2017

Time: Three Hours

Max. Marks: 80 Marks

RESEARCH METHODOLOGY & BIOSTATISTICS

(RS-3 & RS-4)

Q.P. CODE: 2713

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

LONG ESSAYS (Answer any Two)

 $2 \times 10 = 20 \text{ Marks}$

- 1. Define biostatics, Explain characteristics of biostatistics
- 2. Define research design, Explain the different types of research design
- 3. Define tabulation. Explain the important types of graphical representation

SHORT ESSAYS (Answer any Eight)

 $8 \times 5 = 40 \text{ Marks}$

- 4. Analysis of variance and covariance (ANOVA & ANACOVA)
- 5. Stratified sampling
- 6. Chi-square test
- 7. Explain measures of asymmetry
- 8. Explain steps involved in the processing of data
- 9. Describe basic concept concerning testing of hypotheses
- 10. Describe various scale of measurement with examples
- 11. Explain measures of central tendency
- 12. Criteria for a good research
- 13. Explain questionnaire methods of data collection

SHORT ANSWERS

10 x 2 = 20 Marks

- 14. Define ratio scale
- 15. Define mode
- 16. Coding
- 17. Distinguish between primary and secondary data
- 18. Frequency polygon
- 19. Case-control study
- 20. Sampling errors
- 21. Standard deviation
- 22. Binomial distribution
- 23. Skewness
