24 45

2708_2012_1_S102

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination - Feb / Mar 2012

Time: Three Hours **Max. Marks: 80 Marks**

PATHOLOGY & MICROBIOLOGY

(RS - 3 & RS - 4)

Q.P. CODE: 2708 & 2709

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

Use separate answer books for section A and section B

Q.P. Code: 2708 – Section 'A' - Pathology (40 Marks)

LONG ESSAYS (Answer any One) **1 x 10 = 10 Marks**

1. Define and classify anemias. Discuss the causes, clinical features and laboratory diagnosis of iron deficiency anemia
2. Define shock. Discuss the pathogenesis, types and morphologic changes seen in shock

SHORT ESSAYS (Answer any Four) **4 x 5 = 20 Marks**

3. Gangrene
4. Cerebrospinal fluid (CSF) findings in pyogenic meningitis and tubercular meningitis
5. Metastasis
6. Tuberculosis
7. Systemic Lupus Erythematosis (SLE)

SHORT ANSWERS **5 x 2 = 10 Marks**

8. Causes of osteoporosis
9. Causes of neutrophilia
10. Sequestrum
11. Microscopy of malignant melanoma
12. Components of Fallot's tetralogy

Q.P. Code: 2709 – Section 'B' - Microbiology (40 Marks)

Use separate answer book

LONG ESSAYS (Answer any One) **1 x 10 = 10 Marks**

1. Define and classify sterilization. Describe autoclaving in detail
2. Enumerate organisms causing respiratory tract infections. Describe the pathogenesis and laboratory diagnosis of Corynebacterium diphtheriae. Add a note on its prophylaxis

SHORT ESSAYS (Answer any Four) **4 x 5 = 20 Marks**

3. Anaerobic culture methods
4. Life cycle of plasmodium vivax
5. Delayed hypersensitivity
6. Cryptococcus neoformans
7. Bacterial cell wall

SHORT ANSWERS **5 x 2 = 10 Marks**

8. Name four acid fast organisms
9. Name four viral vaccines
10. Complications of streptococcus pyogenes infection
11. MacConkey agar
12. Name two gram positive cocci and two gram negative bacilli

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2710_2012_1_S158

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – Feb / Mar 2012

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 x 10 = 20 Marks**

1. Classify skeletal muscle relaxants with suitable examples. How do they act and what are their therapeutic uses.
2. Enumerate various routes of drugs administration. Discuss the merits and Demerits of intramuscular route of drug administration.
3. Classify antihypertensive drugs. Write the mechanism of action, Pharmacological actions and adverse effects of angiotensin converting Enzyme inhibitors.

SHORT ESSAYS (Answer any Eight) **8 x 5 = 40 Marks**

4. Explain the methods of prolonging duration of action of drugs.
5. Carbamazepine.
6. Clinical uses of Atropine Substitutes.
7. L- Dopa.
8. Drugs used in treatment of Peripheral Vascular Disease. write the mechanism of action of any one of them.
9. Write note on mechanism of action and therapeutic uses of digoxin?
10. Discuss the uses and adverse effects of aspirin.
11. Write a note on uses and adverse effects on Chlorpromazine.
12. Briefly mention the Pharmacokinetic changes in the geriatric population.
13. Write a note on Insulin preparations.

SHORT ANSWERS **10 x 2 = 20 Marks**

14. Name four purgatives.
15. List two oral anticoagulants and two parenteral anticoagulants.
16. Name two nasal decongestants and two adverse effects.
17. Mention two drugs used in the treatment of gout.
18. List four H2 antagonists.
19. Name two drugs administered by inhalational route.
20. List two indications and two contraindications of morphine.
21. Define the term haemostatic. Mention two haemostatics.
22. List the therapeutic uses of benzodiazepines.
23. Why glucocorticoics should not be stopped abruptly following Long term administration.



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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – Feb / Mar 2012

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) **2 x 10 = 20 Marks**

1. Define posture. What are active & inactive postures? Explain the principles of re-education for various postural deviations
2. What is Proprioceptive Neuromuscular Facilitation? Explain the basic neurophysiologic principles & techniques of PNF
3. Define suspension therapy, explain the principles, uses types & techniques of suspension therapy

SHORT ESSAYS (Answer any Twelve) **12 x 5 = 60 Marks**

4. What are the effects of stretching? Explain the technique of stretching
5. Frenkel's exercises
6. Write a note on aerobic exercises
7. Explain the principles of mobilization
8. Explain the physiology of balance & technique of balance training
9. What is pre-crutch training? Explain the types of crutch walking
10. Write about merits & demerits of goniometry
11. Explain any 2 techniques of massage in detail
12. What are the principles & grade of joint mobilization
13. Endurance testing
14. Explain the measurement of angle of pelvic inclination
15. Explain the principles & limitation of MMT. Define the grades of manual muscle testing
16. Anthropometry
17. Jacobson's relaxation technique

SHORT ANSWERS **10 x 2 = 20 Marks**

18. BRIME
19. Name any 4 postural muscles
20. Define Isokinetics
21. Types of free exercises
22. Define strength & power
23. What are trick movements
24. Accessory movement
25. Define motor unit
26. Name 2 uses of active exercises
27. Testing for tightness of Tensor fascia lata

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2712_2012_1_S263

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – Feb / Mar 2012

Time: Three Hours | Max. Marks: 100 Marks

ELECTROTHERAPY

(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 x 10 = 20 Marks**

1. Describe the principle of Ionotophoresis, explain indication, selection of current, and commonly used drugs in iontophoresis
2. Discuss in detail production of ultra sound, explain the therapeutic and physiological effect of ultrasound
3. Define pain, explain the theories of pain and pain modulation

SHORT ESSAYS (Answer any Twelve) **12 x 5 = 60 Marks**

4. Explain production and propagation for action potential on electrical stimulation
5. Pulsed short wave diathermy
6. Current parameters and uses of Rebox current
7. Tissue healing with low frequency current
8. Explain method of applications and therapeutic uses of whirl pool bath
9. Explain therapeutic uses, contraindication of contraindication of Hydro collateral pack
10. Explain therapeutic effects of faradic current
11. Explain the characteristics of LASER
12. Write the physiological and therapeutic effect of interferential currents
13. Explain the production of IRR, add a note on types of IR Generators
14. Fluido therapy
15. Explain method of application of wax
16. Indications for ultraviolet radiation
17. What is biofeed back, write its uses

SHORT ANSWERS **10 x 2 = 20 Marks**

18. Dutty cycle
19. Parameters of High TENS
20. Acoustic streaming
21. Titanic contraction
22. What is ramping of current
23. Explain latent heat in wax
24. Define phonophoresis
25. Tridamite formation in UVR
26. Define Micro / Macro shock
27. Define one ampere

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2713_2012_1_S181

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination - Feb / Mar 2012

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 x 10 = 20 Marks**

1. Discuss in detail about ANOVA
2. Number of physiotherapy sessions observed among 10 patients were 10,9,10,13,14,11,8,6,7 and 12. Compute Mean, Median and Mode
3. Discuss about principles of experimental design

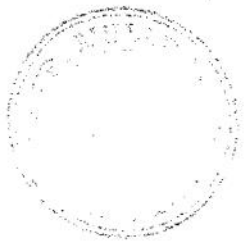
SHORT ESSAYS (Answer any Eight) **8 x 5 = 40 Marks**

4. Explain the properties of normal distribution curve
5. Define Probability. State its importance
6. Explain about levels of measurement
7. Define standard deviation. Explain the steps in computing standard deviation
8. Define variable. Explain the types with suitable examples
9. Explain the problems accounted in research
10. Explain the importance of computer in research
11. Differentiate between questionnaire and schedules
12. Differentiate between research methods and research methodology
13. Define hypothesis. Explain the types

SHORT ANSWERS **10 x 2 = 20 Marks**

14. Median
15. Skewness
16. Kurtosis
17. Any two characteristics of good research
18. Simulation research
19. Statement of research problem
20. Null hypothesis
21. Pie diagram
22. Measurement scales
23. ANACOVA

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50

2058_2012_2_S181

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. (Physiotherapy) Degree Examination – Sep 2012

Time: Three Hours **Max. Marks: 70 Marks**

PHARMACOLOGY

(Old Scheme)

Q.P. CODE: 2058

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. Define bioavailability. Explain the factors that affect absorption of drugs.
2. Classify skeletal muscle relaxants. Write the mechanism of action, uses and adverse effects of pancuronium.
3. Classify antihypertensives. Write the mechanism of action adverse effects, uses and contraindications of ace inhibitors.

SHORT ESSAYS (Answer any Six) **6 x 5 = 30 Marks**

4. Propranolol
5. Digoxin
6. Allopurinol
7. Salbutamol
8. Proton pump inhibitors
9. Warfarin
10. Atropine substitutes
11. Uses and adverse effects of glucocorticoids

SHORT ANSWERS **10 x 2 = 20 Marks**

12. Name four antiepileptics.
13. Define prodrug.Give two examples.
14. List two nasal decongestants.
15. List two drugs used in the treatment of parkinsonism.
16. Mention two inhalation drugs used in bronchial asthma.
17. Mention two drugs used in the treatment of rheumatoid arthritis.
18. Mention two drugs used in anaphylactic shock.
19. Mention two potassium sparing diuretics.
20. Mention two uses and two adverse effects of aspirin.
21. Mention two drugs used in hypertensive emergencies.

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2059_2012_2_S183

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – Sep 2012

Time: 3 Hours **Max. Marks: 50 Marks**

Pathology

Q.P. Code : 2059

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

(Note : Both QP Codes 2059 and 2060 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) **1 x 10 = 10 Marks**

1. Define Neoplasia, classify and mention the differences between Benign and malignant tumour.
2. Describe the process of wound healing in primary intention. Add a note on factors that affect wound healing.

SHORT ESSAYS (Answer any Six) **6 x 5 = 30 Marks**

3. Chemical mediators of inflammation
4. Air Embolism
5. Lobar Pneumonia
6. Peptic ulcer
7. Gout
8. Diabetes mellitus
9. Difference between Dry gangrene and Wet gangrene

SHORT ANSWERS **5 x 2 = 10 Marks**

10. Hyperplasia
11. Fate of thrombus
12. Aschoff body
13. Mention the routes of transmission of AIDS
14. Sequestrum.

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2060_2012_2_S103

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – Sep 2012

Time: 3 Hours **Max. Marks: 50 Marks**

Microbiology

Q.P. Code : 2060

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

(Note : Both QP Codes 2059 and 2060 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) **1 x 10 = 10 Marks**

1. Classify bacteria based on morphology. Write in detail about bacterial spore
2. Define and classify hypersensitivity giving examples of each type

SHORT ESSAYS (Answer any Six) **6 x 5 = 30 Marks**

3. Contributions of Robert Koch
4. Autoclave
5. Acquire immunity
6. Streptococcus pyogenes
7. Laboratory diagnosis of enteric fever
8. Candidiasis
9. Prophylaxis for rabies

SHORT ANSWERS **5 x 2 = 10 Marks**

10. Mention two organisms causing hospital infections
11. Hanging drop preparation
12. Mention any two organisms causing urinary tract infections
13. Hepatitis A virus
14. Bacterial disinfectants

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2158_2012_2_S042

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – Sep 2012

Time: Three Hours **Max. Marks: 80 Marks**

PHARMACOLOGY
(RS & RS2)

Q.P. CODE: 2158

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. Enumerate various routes of administration for drugs. Explain with examples topical application of drugs
2. Classify non-steroidal anti-inflammatory drugs. Write the pharmacological actions, adverse & effects and uses of Aspirin
3. Enumerate glucocorticoid preparations. Write their therapeutic uses and adverse effects

SHORT ESSAYS (Answer any Eight) **8 x 5 = 40 Marks**

4. Sub-lingual route
5. Local anesthetic agents
6. Furosemide
7. Ciprofloxacin
8. Neo-stigmine
9. Salbutamol
10. Pre-anaesthetic medication
11. Antiseptic agents
12. Therapeutic uses of propranolol
13. Centrally acting skeletal muscle relaxants

SHORT ANSWERS **10 x 2 = 20 Marks**

14. Name two drugs used in peptic ulcer
15. Adrenaline is used in anaphylactic shock – give reason
16. Benzathine pencillin mention one use and route of administration
17. Mention two uses and two adverse effects of atropine
18. Write two therapeutic uses of ethyl alcohol
19. Give four examples of drugs used in hypertension
20. Write two drugs used in cancer treatment
21. Name two anti emetic agents of different class
22. What is d-Tubocurarine, mention one adverse
23. Name four anti-diabetic drugs

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2159_2012_2_S003

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T Degree Examination – Sep 2012

Time: 3 Hours **Max. Marks: 40 Marks**

Pathology

Q.P. Code : 2159

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

(Note : Both QP Codes 2159 and 2160 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) **1 x 10 = 10 Marks**

1. Define and classify gangrene. Tabulate the differences between dry gangrene and wet gangrene
2. Write in detail the etiology and pathology of osteomyelitis

SHORT ESSAYS (Answer any Four) **4 x 5 = 20 Marks**

3. Osteoclastoma
4. Fracture healing
5. Iron deficiency anaemia
6. Infarction
7. Air embolism

SHORT ANSWERS **5 x 2 = 10 Marks**

8. Exudate
9. C.S.F. findings in Bacterial meningitis
10. Bronchiectasis
11. Edema
12. Atheromatous plaque

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2160_2012_2_S003

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T Degree Examination – Sep 2012

Time: 3 Hours **Max. Marks: 40 Marks**

Microbiology

Q.P. Code : 2160

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

(Note : Both QP Codes 2159 and 2160 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) **1 x 10 = 10 Marks**

1. Describe morphology and laboratory diagnosis of Pulmonary tuberculosis
2. Draw a neat diagram of bacterial cell. Add a note on flagella

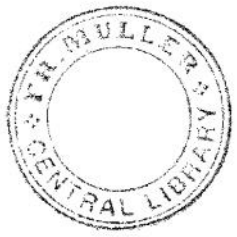
SHORT ESSAYS (Answer any Four) **4 x 5 = 20 Marks**

3. Widal test
4. Hot air oven
5. AIDS
6. Rabies virus
7. Sabouraud's dextrose agar

SHORT ANSWERS **5 x 2 = 10 Marks**

8. Name four agents causing urinary tract infection
9. Name four motile bacilli
10. Acid fast stain
11. Name four culture media
12. Blood agar

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2708_2012_2_S182

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination - Sep 2012

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. What is neoplasm? Classify and write in detail
2. Write about pulmonary tuberculosis

SHORT ESSAYS (Answer any Four) **4 x 5 = 20 Marks**

3. Causes of cell injury
4. Amyloidosis
5. Osteomyelitis
6. Peptic ulcer
7. Leprosy

SHORT ANSWERS **5 x 2 = 10 Marks**

8. Hydatid cyst in liver
9. Metaplasia
10. Fate of thrombus
11. Hypertrophy
12. Name any four congenital heart diseases

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2709_2012_2_S182

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination - Sep 2012

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**

1. Define and classify hypersensitivity. Write in detail on type I hypersensitivity
2. Classify mycobacteria. Explain pathogenesis and lab diagnosis of pulmonary tuberculosis. Add a note on RNTCP

SHORT ESSAYS (Answer any Four) **4 x 5 = 20 Marks**

3. Write universal precautions
4. Urinary tract infections
5. Widal test
6. Structure and symmetry of viruses
7. Poliomyelitis

SHORT ANSWERS **5 x 2 = 10 Marks**

8. Name any three sexually transmitted diseases
9. Mention any four zoonotic diseases
10. Name four organism causing gastroenteritis
11. Name any four bacteria causing wound infections
12. Draw a neat labeled diagram of HIV virus

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2710_2012_2_S156

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – Sep 2012

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 x 10 = 20 Marks**

1. Classify Non-steroidal Anti-inflammatory drugs. Describe the actions, adverse effects and uses of Aspirin.
2. Classify Calcium Channel blockers. Describe the mechanism of action, therapeutic uses and adverse effects of these drugs.
3. Classify Adrenergic drugs. Describe the actions, adverse effects and uses of Adrenaline.

SHORT ESSAYS (Answer any Eight) **8 x 5 = 40 Marks**

4. Sulfonylureas.
5. Write the adverse effects and uses of Barbiturates?
6. Enumerate Thrombolytics and mention the clinical uses.
7. Allopurinol.
8. Monoamine Oxidase Inhibitors.
9. Write a note on Proton pump inhibitors.
10. Write the adverse effects and uses of ACE inhibitors?
11. AMIODARONE.
12. Write a note on Atorvastatin.
13. Enumerate Purgatives. Write a note on bulk Purgatives.

SHORT ANSWERS **10 x 2 = 20 Marks**

14. Write any Four drugs administered by I.V. route.
15. Mention two drugs used in Gout.
16. Clinical uses of Insulin.
17. Write any Four uses of Glucocorticoids.
18. Write any Four drugs used in Epilepsy.
19. Clinical uses of Anti-histamines
20. Adverse effects of Loop Diuretics.
21. CILOSTAZOL- Mechanism of action and two uses.
22. Four uses of Nitrates.
23. Adverse effects of Atropine.

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2711_2012_2_S157

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination - Sep 2012

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) **2 x 10 = 20 Marks**

1. Describe various PNF techniques of facilitation for mobility.
2. Describe the technique of moblising the ankle joint.
3. Discuss the various physiological changes that occurs during aerobic exercises.

SHORT ESSAYS (Answer any Twelve) **12 x 5 = 60 Marks**

4. Describe how would you measure the range of movement of supination and pronation using goniometer.
5. Describe the ranges of muscle work with examples.
6. Describe the technique of petrissage.
7. Describe the various derived positions in kneeling position.
8. Discuss the various methods for improving standing balance.
9. Examples for free exercises with diagrams for spinal extensors.
10. What is yoga? Mention its basic principles.
11. Discuss with the examples close kinetic chain exercises for shoulder.
12. What is hydrotherapy and describe the principle of hydrotherapy.
13. Explain factors which pre disposes to poor postures.
14. What are the indications and principle for resisted exercises?
15. Physiological uses of massage.
16. Describe the techniques of muscle testing for shoulder extensors.
17. Describe circuit training.

SHORT ANSWERS **10 x 2 = 20 Marks**

18. Strain.
19. Name the critical elements of exercises.
20. Two limitations of joint mobilization.
21. Name the test for inco-ordination.
22. Define posture.
23. What is vertical suspension?
24. Two contra indications of inverted asanas.
25. Uses of hip hiking.
26. Two uses of assisted exercises.
27. SAID Principle.

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2712_2012_2_S158

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – Sep 2012

Time: Three Hours **Max. Marks: 100 Marks**

ELECTROTHERAPY

(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 x 10 = 20 Marks**

1. Describe principles and production of SWD and explain the various methods of heat production. Add a note on spacing of electrodes.
2. Enumerate the types of Ultra violet radiation. Explain the method of test dose and describe calculation of the dosage.
3. Define TENS. List the various types of TENS and give the features of each type and their therapeutic uses.

SHORT ESSAYS (Answer any Twelve) **12 x 5 = 60 Marks**

4. Explain types of valves used in the electrotherapy units.
5. Describe the electromagnetic spectrum and indicate the unit in which it is utilized.
6. Give the types of modified A.C currents used in physiotherapy. Describe any one in detail.
7. Write in detail about anodal galvanism.
8. List the various tests used in electro diagnosis. Describe any one in detail.
9. What is Bio feedback? Give the importance of its use in physiotherapy.
10. Explain the method of application of phonophoresis and indicate its uses.
11. Give the physiological effects of IRR.
12. Explain the production of ultra sound and give a note on dosimetry in ultrasound.
13. Describe the indications and contra indications of contrast bath usage.
14. Give the principles of Wax bath therapy.
15. Explain the type of applicators used in a MWD unit and its uses.
16. Give the benefits of cold packs usage.
17. Explain the types of electrode placement in Interferential therapy.

SHORT ANSWERS **10 x 2 = 20 Marks**

18. Use of a fuse in electrotherapy unit.
19. Define condenser.
20. Give 2 uses of interrupted galvanic current.
21. Give 2 features of a faradic current.
22. What is cathodal galvanism?
23. Give 2 uses of SD curve used in electrotherapy.
24. Define Pulsed electro magnetic energy.
25. Give 2 uses of a whirlpool bath.
26. Define Ohms law.
27. Define the term nerve conduction velocity.

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2713 2012_2_S105

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – Sep 2012

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 x 10 = 20 Marks**

1. Problems encountered by researchers in India
2. Methods of data collection in research
3. Probability and standard distribution

SHORT ESSAYS (Answer any Eight) **8 x 5 = 40 Marks**

4. Analysis of variance (ANOVA)
5. Criteria for good research
6. Basic principles of experimental design
7. Computers and researcher
8. Explain different types of sampling design
9. Techniques of developing measurement tools
10. Difference between explorative and descriptive research design
11. Statistics and health science including physiotherapy
12. Tabulation of data
13. Important scaling techniques

SHORT ANSWERS **10 x 2 = 20 Marks**

14. Nominal scale
15. Median
16. Need for sampling
17. Descriptive vs Analytical research
18. Stratified sampling
19. Define research
20. Dependent vs Independent variable
21. Research problem
22. Experimental research designs
23. What is hypothesis?



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