Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Neuro Science Technology Degree Examination – SEP-2017

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

Basic Electroencephalography

Q.P. CODE: 2841

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 epilepsy. Enumerate the antiepileptic drugs.
2. Classify Cerebrovascular accident. Add a note on TIA. Enumerate the treatment and diagnosis of stroke.
3. Essay on Digital Signal Processing and add a note on advantages of DSP and filters.

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

4. Normal EEG rhythms
5. REM sleep
6. Short note on artifacts and mention EKG/ECG artifact
7. OSA. Add a note on CPAP
8. Time constant
9. Filters
10. Impedance
11. CMR

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

12. Central sleep apnea
13. Patient preparation for PSG
14. Aneurysm
15 Lumbar puncture
16. Meningitis
17. Hypopnea
18. EEG Calibration
19. Block diagram of EEG
20. Storing data
21. Blink artifact
22. Paper speed
23. Patient preparation for EEG

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II Year B.Sc. Neur Science Technology Degree Examination – SEP 2017

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

Basic of Nerve Conduction Study (NCS)
Q.P. CODE: 2842

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. Essay on muscular dystrophy
2. Essay on RNS, short note on myasthenia gravis
3. Enumerate brachial plexus and its injuries with diagram.

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

4. Auditory pathway
5. Khyphosis and its types
6. Compound muscle action potential
7. Ulnar nerve
8. Classify nervous system
9. Guillian Barre Syndrome
10. Sense of hearing
11. H-Reflex

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

12. Interpretations of NCS
13. Define sound.
14. Limitations of VEP
15 Central pain syndrome
16. Multiple sclerosis
17. Upper trunk lesion
18. Auditory pathway
19. Diabetes mellitus
20. Schematic diagram of neuron
21. Common diseases and problems of spinal cord
22. Patient preparation for BAER
23. Axonal neuropathy

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II Year B.Sc. Neuro Science Technology Degree Examination – SEP-2017

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

Applied Anatomy and Physiology Related to Neuroscience Technology
Q.P. CODE: 2843

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 nerve system
2. Detail on spinal cord
3. Essay on cerebrum. Mention a note on brocha and wernicke's areas and its clinical conditions.

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

4. Short note on sympathetic division of ANS
5. Brief note on Frontal lobe with diagram
6. Cerebellum
7. Classify nervous system
8. Sense of hearing
9. Parasympathetic division of ANS
10. Functions of cerebellum
11. Signs of cerebellar dysfunction

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

12. Khyphosis
13. Diabetes mellitus
14. Schematic diagram of neuron
15 Multiple Scelorosis
16. GBS
17. DMD
18. Upper trunk lesion
19. Auditory pathway
20. Spina bifida
21. Segments of spinal cord
22. Short note on synapsis
23. Common diseases and problems of spinal cord

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II Year B.Sc. Neuro Science Technology Degree Examination – SEPT 2017

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

Pharmacology Related to Neuroscience Technology
Q.P. CODE: 2844

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 drugs antihypertensive drugs. Write the mechanism of action, therapeutic uses and adverse effects of ACE Inhibitors.
2. Classify Antitubercular drugs. Write the mechanism of action, uses and adverse effects of Rifampicin.
3. Classify Glucocorticoids. Write the therapeutic uses and adverse effects of Glucocorticoids.

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

4. Nitroglycerine
5. Ketamine
6. Diazepam
7. Acyclovir
8. Paracetamol
9. Ketaconazole
10. Metformin
11. Heparin

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

12. Mention three centrally acting skeletal muscle relaxants.
13. Rationale of combining lignocaine with Adrenaline
14. Lepra reaction
15 Define prodrug. Give two examples.
16. Define Teratogenicity. Name any two teratogenic drugs.
17. Mention three advantages of Doxycycline over Tetracycline.
18. Mention three specific adverse effects of Gentamicin.
19. Mention three important uses of Adrenaline.
20. Name one β blocker and mention two contraindications for the use of β blockers.
21. Mention three classes of drugs used in Glaucoma with one example for each.
22. Morphine is contraindicated in Head Injury. Justify.
23. Superinfection

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