Total No. of Pages : 2]

(24)

Code No.RC-2905

I YEAR B.P.T. EXAMINATION OF NOVEMBER - 2003
HUMAN ANATOMY - THEORY PAPER

58

Time : 3 Hours]

[Max. Marks : 100

Your answer shall be specific to the questions asked.

Draw neat and labelled diagrams wherever necessary.

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I) *Long Essays (Answer any Four)* [4 x 10 = 40]

1) Classify Bones under the following headings, Regionwise, shape, development. Describe the upper end of Humerus.

2) Discuss the oblique muscles of Abdomen in detail add a note on Applied Aspects.

3) Describe the Formation Brachial plexus and effects of Axillary nerve leision.

4) Describe the Perineal diaphragm and its Applied Anatomy.

5) Describe the HIP Joint. Add a note on Trendlenberg's sign.

II) *Short Essays (Answer any eight)* [8 x 5 = 40]

6) Primary Cartilagenous Joint
7) Superficial Palmar Arch.
8) Pisiform bone
9) Deltoid muscle
10) Coracoid process
11) Left Coronary Artery
12) Inter costal muscles
13) Pericardium
14) Femoral canal
15) Sural Nerve

P.T.O.

Short Answers (Answer all) [10 x 2]

16) Name the Laryngeal Muscles.

17) Name the Branches of Arch of Aorta.

18) List the distal row of carpal bones.

19) Structures passing through Foramen Magnum.

20) Formation of circle of WILLIS.

21) Formation of Portal Vein.

22) Tendo calcaneus.

23) Name structures passing through Hilum of Lung.

24) Name the coverings of spermatic cord.

25) Golgi Apparatus.

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(25) [10 x 2

(26) Code No.RC-2907

of Pages : 2]

AR B.P.T. EXAMINATION OF NOVEMBER , 2003

BIO-MECHANICS OF HUMAN MOTION (Theory Paper)

[Max. Marks : 100

Hours]

r answer shall be specific to the questions asked.

aw neat and labelled diagrams wherever necessary.

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ng Essays *(Answer any Four)* [4 x 10 = 40]

What is force ? What are the qualities of a force ? Explain different types of forces acting on the human body.

Describe Center of Gravity (COG), Line of Gravity (LOG) and base of support. Relate these terms from biomechanical point of view.

Describe the Scapulo - humeral rhythm. Explain kinematics of the shoulder joint.

Explain the different types of power and precision grip giving the muscle action.

What is Mechanical Advantage. Explain lever system with examples and its corelation to mechanical advantage.

hort Essays *(Answer any eight)* [8 x 5 = 40]

) Give the measurement method for crutch and cane.

) What is a Goniometer? Explain its parts.

3) Identify the movements of the shoulder joint. Explain the axis and plane for each of the movement of the shoulder joint.

9) What is Hookes Law ? Explain its applications in using springs.

10) Explain Newtons third law of Motion, giving examples of human motion.

11) Write about Length-Tension relationship of a muscle.

P.T.O.

(27)

12) Describe the arches of the hand.

13) Describe the Screw-Home Phenomena.

14) Describe the static stabilizers of tibio-femoral joint.

15) Describe the stance phase of gait cycle, explain the muscle work and joint motion involved.

[10 x 2 = 20]

III) *Short Answers* (*Answer all*)

16) Define closed Kinematic chain.

17) Differentiate between strength and endurance.

18) 2 uses of parallel bars.

19) Describe carrying angle.

20) Give 2 uses of Pulley in physiotherapy.

21) What is stride - length?

22) Give 2 uses of Wobble Board.

23) Describe 2 principles of Hydrotherapy.

24) Define Creep.

25) What is work, power, energy ?

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(27)

[Total No. of Pages : 2] **Code No.RC-2909**

1st B.P.T. EXAMINATION OF NOVEMBER, 2003
GENERAL PSYCHOLOGY AND SOCIOLOGY
(1996-97 and 1997-98 Batch)
Paper - I

(28)

[Time : 3 Hours] *[Max. Marks : 100*

Your answer shall be specific to the question asked.
Draw neat and labelled diagrams wherever necessary.
Answer section A and B in Separate answer books.

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SECTION - A

(General Psychology)

I) ***Long Essays:*** ***(Answer any two)*** [2 x 10 = 20]

1) Define leadership and indicate characteristics of good leaders.
2) What is learning? What is operant and classical conditioning ?
3) Describe the basis idea of personality development as given by Freud.

II) ***Short Essays:*** ***(Answer any four)*** [4 x 5 = 20]

4) Brain and emotions
5) Defense mechanisms.
6) Laws of perception
7) Branches of psychology
8) Attitude change

III) ***Short Answers*** [5 x 2 = 10]

9) introspection
10) concepts
11) old age
12) motives and drive
13) Ink blot tests.

P.T.O.

SECTION - B
(Sociology)

(29)

I) *Long Essays: (Answer any two)* [2 x 10 =

1) Explain Social Survey in the methods of Sociological Investigation
2) Bringout the meaning and Nature of Socialisation.
3) Ellucidate the meaning and features of rural community.

II) *Short Essays: (Answer any four)* [4 x 5 =

4) Bring-out the relationship of Sociology and Socialpsychology.
5) Explain the meaning and definitions of family.
6) Explain the culture and Health Disorders.
7) Social-change leads to stress - Discuss.
8) "Health-worker must be a social-worker" - Explain.

III) *Short Answers* [5 x 2 =

9) What is an interview ?
10) What is Anticipatory Socialisation.
11) Define Anthropology ?
12) What is Social Devience ?
13) Prostitution.

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[No. of Pages : 2]

1st B.P.T.
GENER

Time : 3 Hours]

Your answer shall
Draw neat and lat
Answer section A

Long Essays: (A

1) Discuss the
adequate exa
2) Define and d
3) What is the
other person

Short Essays: (A

4) School of be
5) Nature - Nu
6) Defence me
7) Traits of cre
8) Theories of

Short Answers

9) Serial vs. fr
10) Freudian Ps
11) Frustration
12) Introspecti
13) Intelligenc

(29)

[2 x 10 =

Sociological Investigatio

ialisation.

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" - Explain.

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(30)

Code No.RC-2909

1st B.P.T. EXAMINATION OF NOVEMBER, 2003
GENERAL PSYCHOLOGY AND SOCIOLOGY
(1998-99 and Onwards Batch)

54

ne : 3 Hours] *[Max. Marks : 80*

Your answer shall be specific to the question asked.
Draw neat and labelled diagrams wherever necessary.
Answer section A and B in Separate answer books.

❖ ❖ ❖

SECTION - A
(General Psychology)

Long Essays: ***(Answer any one)*** [1 x 10 = 10]

1) Discuss the specific features of classical and operant conditioning with adequate examples.

2) Define and discuss the concepts of illusion, delusion and hallucinations.

3) What is the rationale of projective techniques ? How is it different from other personality questionaires. Discuss.

Short Essays: ***(Answer any four)*** [4 x 5 = 20]

4) School of behaviourism.

5) Nature - Nurture controversy.

6) Defence mechanism.

7) Traits of creative people.

8) Theories of emotion.

Short Answers [5 x 2 = 10]

9) Serial vs. free recall learning.

10) Freudian Psychosexual development.

11) Frustration and its sources.

12) Introspection

13) Intelligence.

P.T.O.

SECTION - B
(Sociology)

(31)

[1 x 10

I) Long Essays: (Answer any One)

1) Define Family and explain the role of family in Health & Illness

2) Explain the difference between primary and secondary groups.

[4 x 5

II) Short Essays: (Answer any Four)

3) Sociology and Health care professionals.

4) Explain the Agencies of Socialization.

5) Explain the causes for the Disintegration of Joint Family System

6) Explain the Health Effects of Industrialization.

7) Explain the Health Consequences of Alcoholism.

[5 x 2

III) Short Answers:

8) Mention the types of Unemployment.

9) Define Tribe.

10) Mention the types of Socialization.

11) Social Psychology.

12) Interview Method.

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el No. of Pages : 2

I YEAR B.P.
MEDICAL EL

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Long Essays

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5) What are

Short Essays

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9) What ar

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11) Explain

12) Write a

(31)

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and secondary groups.

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coholism.

[5 x

(32)

l No. of Pages : 2]

Code No.RC-2908

I YEAR B.P.T. EXAMINATION OF NOVEMEBR, 2003
MEDICAL ELECTRONICS AND COMPUTER APPLICATIONS
(Theory Paper) (1996-1997 Batch)

56

e : 3 Hours] *[Max. Marks : 100*

Your answer shall be specific to the questions asked.

Draw neat and labelled diagrams wherever necessary.

❖ ❖ ❖

Long Essays (Answer any four) [4 x 10 = 40]

1) What is a Virus ? Describe symptoms of virus attack. Enlist the steps to be taken against virus attack.

2) What is a Program ? Explain the principles of Programming. Give the uses of computerisation.

3) Explain the vacuum diode. How is it used as a rectifier.

4) What are Microwaves ? Explain the circuitry of MWD Machine.

5) What are low frequency currents ? Describe their uses.

hort Essays (Answer any eight) [8 x 5 = 40]

) What is an Input Device ? Describe the different types of Input Devices.

) What are the characteristics of information ?

) What is Memory ? What are the different types of Memory.

) What are the applications of computers in the field of physiotherapy.

0) What are the functions of CPU ?

1) Explain the Phenomena of Thermionic emmission.

2) Write a note on Multimeter.

P.T.O.

13) Give the advantages of Earthing.

14) Give the functions of Static Transformer.

15) Describe the Laws Governing Radiation.

III) *Short Answers (Answer all)*

16) Give 2 Output Devices.

17) Define Register.

18) What is a Flow Chart.

19) Give 2 Advantages of Inkjet Printer.

20) What is Secondary Memory.

21) State OHM's Law.

22) Define Latent heat.

23) What is potential difference?

24) State Lenz's Law .

25) Define UV Rays.

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No. of Pages : 2] **Code No.RC-2908**

I YEAR B.P.T. EXAMINATION OF NOVEMBER, 2003
MEDICAL ELECTRONICS AND COMPUTER APPLICATIONS
(1997-1998 onwards) (Theory Paper)

Time : 3 Hours] *[Max. Marks : 80*

Your answer shall be specific to the questions asked.

Draw neat and labelled diagrams wherever necessary.

❖ ❖ ❖

I) ***Long Essays*** ***(Answer any Four)*** [2 x 10 = 20]

1) a) Define Computer. What are its features .

b) What are the advantages of using computers ?

c) What measures are to be taken to secure data ?

2) Define Electric Shock. Describe the effects, treatment and prevention of shock.

3) What are microwaves. Explain with the help of a diagram the circuit of a MWD.

II) ***Short Essays*** ***(Answer any eight)*** [8 x 5 = 40]

4) What is a static transformer ? What are its functions.

5) Write a note on safety devices.

6) Describe the production of Eddy currents.

7) Explain the principle of Nebuliser.

8) What is Software ? How can you classify Software ?

9) What is Virus ? How do you cure Virus attack ?

10) What is the importance of computerizing medical records ?

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P.T.O.

11) What is the importance of input devices.

12) What is Memory ? What are the different types of Memory.

13) Give 5 principles of Programming.

[10 x

III) *Short Answers* (*Answer all*)

14) Explain any two output devices.

15) What are the functions of CPU ?

16) Give 2 advantages of inkjet printer over dot Matrix Printer ?

17) When is a Flow Chart used ?

18) Give 2 types of registers.

19) Define latent heat.

20) State Lenz's Law.

21) Define phase of Sine Wave.

22) State Ohm's Law

23) Define IR Rays.

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No. of Pages : 2]

Code No.RC-2906

I YEAR B.P.T. EXAMINATION OF NOVEMBER, 2003

SIOLOGY INCLUDING THERAPEUTIC PHYSIOLOGY & BIO-CHEMISTRY

(Paper 1 - A)

: 3 Hours] *[Max. Marks : 100*

Your answer shall be specific to the questions asked.

Draw neat and labelled diagrams wherever necessary.

❖ ❖ ❖

SECTION-A

PHYSIOLOGY INCLUDING THERAPEUTIC PHYSIOLOGY

ong Essays (Answer any two) [2 x 10 = 20]

) Enumerate the hormones secreted by anterior pituitary and describe the actions of growth hormone. Add a note on acromegaly.

) Explain the neural regulation of respiration.

) Enumerate the descending tract of spinal cord and describe the origin, course, termination and functions of pyramidal tract.

hort Essays (Answer any four) [4 x 5 = 20]

) Composition and functions of pancreatic juice.

) Neuromuscular junction.

) Parkinsonism.

) Errors of refraction.

) Sarcomere

hort Answers (Answer all) [5 x 2 = 10]

) Name the four lung volumes and give their normal values.

) Name the types of deafness and the tests to differentiate them.

) Draw the diagram of reflex arc and label the parts.

) Write any four causes for fatigue.

) Define hemiplegia and paraplegia.

P.T.O.

SECTION-B
BIO-CHEMISTRY

(37)

[2 x 10 = 20

I) *Long Essays* ***(Answer any two)***

1) Give a detailed account of sources, functions, Daily requirement a deficiency manifestations of Vitamin-A.

2) Name the hormones involved in maintenance of Blood Glucose le Explain the mechanisms.

3) Discuss in detail Liver function tests.

[4 x 5 =

II) *Short Essays* ***(Answer All)***

4) Denaturation of proteins.

5) Enzymes of clinical importance

6) Essential fatty acids - Definition, names, sources and functions.

7) Metabolic Acidosis

[5 x 2 =

III) *Short Answers* ***(Answer all)***

8) What is electro phoresis ?

9) Deficiency disease of Vitamin K.

10) Coenzyme form and deficiency disease of thiamine.

11) Competitive inhibition of Enzymes.

12) Name the plasma lipoproteins.

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FIRST YEAR

ee Hours

ng Essays : (A
1 Describe th
2 Explain the
3 Define ECG

ort Essays : (A
4 Compositio
5 Spermatog
6 Upper mot

ort Answers
7 Serum.
8 Name the
9 What is ox
10 Draw a m
11 Name the

ng Essays :
Regulati
Vitamin
Classific

ort Essays
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Detoxic

(Pages : 2)

RC—2577

FIRST YEAR B.Sc. (PHYSIOTHERAPY) DEGREE EXAMINATION, 2003

PHYSIOLOGY including BIOCHEMISTRY

Maximum : 100 Marks

Hours

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

Section A (Physiology)

ng Essays : (Answer any *two*)

Describe the stages of erythropoiesis and explain the factors essential.

Explain the actions of parathormone and add a note on tetany.

Define ECG. Draw a typical ECG and label. And explain the waves of ECG.

(2 × 10 = 20 marks)

ort Essays : (Answer any *four*)

Composition and functions of saliva.

Spermatogenesis.

Upper motor neuron lesion.

Actions of insulin.

Heart sounds.

(4 × 5 = 20 marks)

ort Answers :

Serum.

Name the movements small intestine.

What is oxygen carrying capacity of blood ? Give the normal value.

Draw a myelinated nerve fiber and label it.

Name the functions of rods and cones.

(5 × 2 = 10 marks)

Section B (Biochemistry)

ng Essays : (Answer any *two*)

Regulation of blood glucose.

Vitamin D.

Classification of enzymes with examples. Add a note on enzyme specificity.

(2 × 10 = 20 marks)

rt Essays : (Answer *all*)

Derivatives of cholesterol.

Detoxication.

Vitamin B_{12}.

Buffers of blood.

(4 × 5 = 20 marks)

Turn over

III. Short Answers :

8 Calorific value of proteins and fats.

9 Non protein nitrogenous substances.

10 Name a hormone of the adrenal medulla and its main function.

11 Coenzyme form and deficiency disease of thiamine.

12 Clinical significance of Vanden Bergh reaction.

(5 × 2 = 10 mar

RC—

(40)

- MAY 2003

RC—2579

49

FIRST YEAR B.Sc. (PHYSIOTHERAPY) DEGREE EXAMINATION, 2003

MEDICAL ELECTRONICS INCLUDING COMPUTER APPLICATIONS

(1998–1999 Batch)

e : Three Hours

Maximum : 80 Marks

× 2 = 10 mar

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

I. Long Essays : (Answer any *two*)

1 Write a short note on :

(a) Earthing. (b) Switches.

(c) Safety devices.

2 Explain the principle of operation of microwave diathermy with necessary diagram.

3 Explain term volatile and non-volatile. Differentiate between RAM and ROM and give their applications.

(2 × 10 = 20 marks)

II. Short Essays : (Answer any *eight*)

4 Write a note on infrared.

5 Write a note on medium frequency currents.

6 Write a note on resistances.

7 Write a note on sinusoidal waveform.

8 Write a note on ionization.

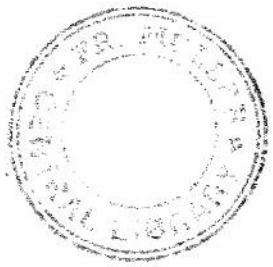
9 What is software ? How can you classify software ?

10 Write a note on viruses.

11 Write a note on input devices.

12 Explain the classification of computers.

13 Explain the term compiler and operating system.



(8 × 5 = 40 marks)

Short Answers : (Answer any *ten*)

14 What are the advantages of using computer network ?

15 Define the term EMF.

16 Define the term conductors.

17 Write a note on fuse.

18 Define the term frequency.

19 Define the term laser.

20 Write a note on super computer.

21 Define the term Data.

22 What do you mean by computer generations ?

23 Distinguish between Hardware and Software.

24 Mention any *two* input devices.

25 Draw the block diagram of floppy disk.

(10 × 2 = 20 marks)

(41)

E - MAY 2003

RC—2578

48

FIRST YEAR B.P.T. DEGREE EXAMINATION, 2003

BIOMECHANICS OF HUMAN MOTION

Time : Three Hours

Maximum : 100 Marks

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

I. Long Essays : (Attempt any *four*)

1 Describe the determinants of gait and explain how each is inter-related to the other.

2 Describe the shoulder complex, include a note on scapulo-humeral rhythm.

3 Define force, classify force systems and explain resultant of concurrent force system.

4 Describe types of muscle contraction and explain the factors affecting muscle tension.

5 Analyse the activity of pushing.

(4 × 10 = 40 marks)

II. Short Essays :

6 What is centre of gravity ? How does it vary in different body positions ?

7 Explain axis and plane with reference to wrist joint.

8 Explain Newtons 3rd law of motion with example.

9 Describe the different movement of the rib-cage.

10 What is precision grip ? How does it differ from power grip ?

11 Describe an anatomical pulley, give example.

12 Explain coefficient of friction give example.

13 Describe the arches of the foot.

14 Explain lumbo-pelvic rhythm.

15 Describe the lever of 2nd order give examples with reference to human body.

(8 × 5 = 40 marks)

III. Short Answers :

16 Explain recoil of springs.

17 Describe carrying angle.

18 Explain tibial torsion.

19 *Two* uses of buoyancy.

20 Define Strain and Stress.

21 Differentiate between Concentric and Eccentric muscle work.

22 Differentiate between Springs in series and parallel.

23 Uses of pulley in physiotherapy.

24 Define Torque.

25 Give *two* uses of suspension therapy.

(10 × 2 = 20 marks)

(Pages : 2) RC—2580

FIRST YEAR B.Sc. (PHYSIOTHERAPY) DEGREE EXAMINATION, 2003

GENERAL PSYCHOLOGY AND GENERAL SOCIOLOGY

(1998–99 Batch)

Three Hours Maximum : 80 Marks

Your answers shall be specific to the questions asked.
Draw neat and labelled diagrams wherever necessary.
Answer Section A and B in **separate** *answer books.*

Section A (General Psychology)

I. Long Essays : (Answer any *one*)

1 Describe the different methods of psychology.

2 Discuss the concept of personality and how it is assessed.

(1 × 10 = 10 marks)

II. Short Essays : (Answer any *four*)

3 Heredity factors in intelligence.

4 Defense mechanisms.

5 Leadership styles.

6 Physical and psychological needs.

7 Infancy.

(4 × 5 = 20 marks)

III. Short Answers :

8 Learning.

9 Concepts.

10 Illusion, hallucination.

11 Id, Ego and Super ego.

12 Attitudes.

(5 × 2 = 10 marks)

Section B (General Sociology)

Long Essays : (Answer any *one*)

1 Bring out the meaning and scope of sociology.

2 In what way social security will be provided by social legislations to the disabled ?

(1 × 10 = 10 marks)

Turn over

(43)

II. Short Essays : (Answer any *four*)

3 Explain the relationship between socialisation and social norms.

4 Explain the health hazards of urban community.

5 "Social change is inevitable"—Discuss.

6 Prostitution is considered as a social-devience—Explain.

7 Explain the consequences of beggary.

(4 × 5 = 20 m

III. Short Answers :

8 Define Psychology.

9 What do you mean by tribal community ?

10 Consequences of population explosion. Explain.

11 What is culture ?

12 Who is a medical-social worker ?

(5 × 2 = 10 m

RC—2576

FIRST YEAR B.Sc. (PHYSIOTHERAPY) DEGREE EXAMINATION, 2003

HUMAN ANATOMY

Time : Three Hours

Maximum : 100 Marks

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

(4 × 5 = 20 m

I. Long Essays : (Attempt any *four*)

1 Write an essay on the muscles of the anterior abdominal wall.

2 Classify joints. Add a note on synovial joints.

3 Describe the rotator cuff muscles.

4 Discuss the course and distribution of the external carotid artery.

5 Write about the median nerve distribution in the hand. Describe the thenar muslces.

(4 × 10 = 40 marks)

(5 × 2 = 10 m

II. Short Essays : (Answer any *eight*)

6 Sessamoid bones.

7 Intercostal muscles.

8 Internal capsule.

9 Inversion and eversion of foot.

10 Broncho pulmonary segments.

11 Fibrous pericardium.

12 Lumbrical muscles of the hand.

13 Uterine tubes.

14 Derivatives of ectoderm.

15 Sciatic nerve.

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(8 × 5 = 40 marks)

III. Short Answers :

16 Extensor expansions of digits.

17 Inguinal ligament.

18 Blood supply of supra renal glands.

19 Brachio radialis muscle.

20 Nerve supply of hip joint.

21 Superior sagittal sinus.

22 Apertures in the diaphragm.

23 Tendocalcaneus.

24 Erb's paralysis.

25 Buccinator muscle.

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(10 × 2 = 20 marks)