Reg. No.					
----------	--	--	--	--	--

(Deemed University)

FIRST YEAR B.P.T./B.O.T. DEGREE EXAMINATION – JUNE 2005

SUBJECT: ANATOMY (COMMON FOR BOTH OLD & NEW REGULATIONS)

Wednesday, June 01, 2005

Time available: 3 Hours.

Max. Marks: 80

- 1. Describe the shoulder joint under the following headings:
- 1A. Bones taking part.
- Capsule and ligaments.
- Movements and muscles producing them.
- 1D. Applied anatomy.

(3+9+5+3 = 20 marks)

- 2. Describe the Ankle joint under the following headings:
- 2A. Bones taking part.
- 2B. Capsule and ligaments.
- 2C. Movements and muscles producing them.
- 2D. Applied anatomy.

(3+7+7+3 = 20 marks)

- 3. Write short notes on:
- 3A. Midbrain.
- 3B. Name all the cranial nerves.
- 3C. Internal capsule.
- 3D. Arteries supplying the superolateral surface of cerebrum.
- 3E. Distribution of facial nerve.

 $(5 \times 5 = 25 \text{ marks})$

- 4. Write short notes on:
- 4A. Fibrous joint.
- 4B. Thyroid gland.
- 4C. Deltoid muscle.
- 4D. Blastocyst.
- 4E. Stomach.

 $(3 \times 5 = 15 \text{ marks})$

Reg. No.	100		9 4
0			

(Deemed University)

FIRST YEAR B.P.T./B.O.T. DEGREE EXAMINATION – JUNE 2005

SUBJECT: PHYSIOLOGY (COMMON FOR BOTH OLD & NEW REGULATIONS)

Thursday, June 02, 2005

Time available: 3 Hours.

Max. Marks: 80

- Answer all questions.
- Draw labelled diagrams wherever appropriate.
- Define cardiac cycle. List the different phases of cardiac cycle. Explain pressure changes in left ventricle during different phases of cardiac cycle with the help of a graph.

(1+4+5=10 marks)

- 2A. Draw a normal spirogram showing:
 - i) vital capacity
- ii) functional residual capacity.

Explain the importance of each one.

- 2B. Explain the steps involved in neuro-muscular transmission with the help of labeled diagram.
- 2C. What is oxygen debt? Explain any three causes for it.
- 2D. Draw a labeled diagram showing innervation of muscle spindles. Explain the sequence of events during stretch of a muscle.
- 2E. Write a brief note on each of the following:
 - Parkinsonism
- ii). Hypoxia

((2+2)+4+(1+3)+(2+2)+(2+2) = 20 marks)

- 3A. Tabulate the agglutinogens and agglutinins present in ABO and Rh systems of blood grouping.
- 3B. Explain the following terms:
 - i) Glycosuria
- ii) Renal threshold for glucose.
- 3C. State any four functions of middle ear.
- 3D. Enumerate the functions of saliva.
- 3E. State the normal body temperature. Mention the role played by skin in maintaining body temperature, when exposed to cold.

 $(2 \times 5 = 10 \text{ marks})$

Classify receptors. Explain any four properties of receptors.

(4+6 = 10 marks)

- 5A. Draw a labeled diagram, depicting the conducting system of the heart. Explain pace-maker potentials in the heart.
- 5B. Draw a normal oxy-haemoglobin dissociation curve and explain its importance. State any two factors that shifts the curve to the right.
- 5C. Discuss the changes observed in a nerve during
 - i) Wallerian degeneration ii) Regeneration
- Explain any two changes observed in functioning of respiratory system and skeletal muscle during exercise.
- 5E. Draw a neat labeled diagram showing structure of the eye. Name the receptors involved in vision.

$$((2+2)+(3+1)+4+4+(3+1) = 20 \text{ marks})$$

- 6A. Define bleeding time and give its normal value. Name any two anticoagulants and their mode of action.
- 6B. Explain any two methods of Na⁺ transport in the kidney tubules.
- 6C. List any two types of movements of small intestine and state the function it subserves.
- 6D. Briefly explain the changes seen in ovary during luteal phase of normal menstrual cycle.
- 6E. Define BMR and give its normal value. State any one hormone which regulates BMR.

$$((1+1)+2+2+2+2=10 \text{ marks})$$



Reg. No.

(Deemed University)

FIRST YEAR B.P.T./B.O.T. DEGREE EXAMINATION - JUNE 2005

SUBJECT: BIOCHEMISTRY (COMMON FOR BOTH OLD & NEW REGULATIONS)

(COM)	TON FOR BOTH OLD & NEW REGULATIONS)
	Friday, June 03, 2005
Time available: 3 Hours	

K	Answer ALL questions.	

 Calculate the energy requirement of a person with sedentary work on a mixed diet with BMR 30 Cal/sqM/Hr and body surface area of 1.7M². Mention the amounts of carbohydrate, protein and fat he has to take to meet his energy requirement.

(3+3 = 6 marks)

Max. Marks: 80

What is respiratory quotient? Mention its values for carbohydrates, proteins and fats. What is its clinical significance?

(3 marks)

3. Classify carbohydrates giving one example for each class.

(6 marks)

- 4. Trace how glucose is formed from non-carbohydrate sources. How this is regulated? (8+2=10 marks)
- 5. Write the reactions of de novo synthesis of palmitic acid from acetyle coA. How this is regulated?

(7+3 = 10 marks)

Write the reactions of ketone body formation and it's utilization. Under which conditions they are produced? Add a note on ketoacidosis.

(5+3 = 8 marks)

Classify enzymes. Define each class. Give one example for each class.

(6+3 = 9 marks)

- Discuss iron metabolism under:
 - a) RDA

- b) Sources
- Absorption, Transport and Storage
- d) Causes of iron deficiency.

(1+1+6+2 = 10 marks)

Explain the various parameters used to assess the liver function.

(12 marks)

10. Explain the process of muscle contraction.

(6 marks)



Reg. No.

(Deemed University)

FIRST YEAR B.O.T. DEGREE EXAMINATION – JUNE 2005

SUBJECT: PSYCHOLOGY - I

Monday, June 06, 2005

	Monday, June 00, 2003
Time	e: 3 Hrs. Max. Marks:
Ø	Answer ALL questions.
K	All questions carry equal marks.
1.	Define emotions and discuss the theories of emotions.
2.	Define psychology and mention the branches of psychology. Describe any two branch
	briefly.
3.	What are drives and motives? Describe the theories of motivation.
4.	Write short notes on:
4A.	Conflicts.
4B.	Attitudes.
5.	What is memory? What are the factors that affect formation of memory?
6.	Describe the normal personality styles.
٠,	2 common manual processing of the common proce
7.	Describe any two major learning theories outlining their principles.
/.	Describe any two major learning theories outlining their principles.
8.	Write short notes on:



8A. Mental health.

8B. Process of attention.

|--|

(Deemed University)

FIRST YEAR B.O.T. DEGREE EXAMINATION – JUNE 2005

SUBJECT: OCCUPATIONAL THERAPY - I

(Therapeutic activities)

Tuesday, June 07, 2005

Time: 3 Hrs.	 Max. Marks: 80

Answer ALL questions.

Define activity analysis. Explain three levels of activity analysis.

(3+12 = 15 marks)

Write the definition of communication skills. Explain the role of communication skills in occupational therapy.

(3+12 = 15 marks)

3. Write in detail on pioneers of occupational therapy.

(15 marks)

4. Write in detail about ethics in occupational therapy.

(15 marks)

- 5. Write short notes on the following:
- 5A. Explain habituation subsystem of MOHO.
- 5B. Define sickness and sickrole.
- 5C. Philosophy of occupational therapy.
- 5D. List the cognitive therapeutic values for seimography.

 $(5\times4 = 20 \text{ marks})$

