

MANIPAL UNIVERSITY

FIRST YEAR B.P.T./B.O.T. DEGREE EXAMINATION – MAY 2009

SUBJECT: ANATOMY

(COMMON FOR BOTH OLD & NEW REGULATIONS)

Monday, May 18, 2009

Time: 10.00-13.00 Hours.

Max. Marks: 80

✍ Answer the following questions:

1. Describe the shoulder joint under the following headings:

1A. Type and subtype.

1B. Ligaments.

1C. Movements and muscles producing each of these movements.

(2+8+10 = 20 marks)

2. Describe the femoral nerve under the following headings:

2A. Origin and course.

2B. Branches and distribution.

2C. Effect of injury.

(6+10+4 = 20 marks)

3. Write short notes on:

3A. Functional areas of superolateral surface of the cerebrum.

3B. Corticospinal tracts.

3C. Thalamus.

3D. Corpus striatum.

3E. Fourth ventricle.

(5×5 = 25 marks)

4. Write short notes on:

4A. Cavity of larynx.

4B. Venous drainage of the heart.

4C. Uterine tube.

4D. Dorsum of tongue.

4E. Anal canal.

(3×5 = 15 marks)



MANIPAL UNIVERSITY
FIRST YEAR B.P.T./B.O.T./B.Sc.M.L.T./B.Sc.N.M.T/B.Sc.R.T.T.
DEGREE EXAMINATION – MAY 2009

SUBJECT: PHYSIOLOGY

Tuesday, May 19, 2009

Time: 10.00-13.00 Hours.

Max. Marks: 80

1. Explain the functions of different areas of cerebral cortex. (10 marks)
2. Describe mechanism of breathing. (10 marks)
3. Write briefly on the following:
 - 3A. Enumerate any four properties of cardiac muscle. Explain briefly any two of them.
 - 3B. Define venous return. Name any four factors influencing venous return. Explain how venous return affects cardiac output.
 - 3C. Draw and label the diagram of the cross section of the human eye. Mention the functions of any two structures.
 - 3D. Explain the actions of thyroid hormones on growth and development.
 - 3E. Mention the function of T-tubules and terminal cisternae of sarcotubular system. What are the sources of energy for muscular contraction?
 - 3F. Describe the structure and functions of the respiratory membrane.
 - 3G. Describe the functions of basal ganglia. Mention the clinical features of a disease due to a lesion in it.
 - 3H. Draw and label the normal electrocardiogram. Write a note on P-R interval. (5×8 = 40 marks)
4. Write short answer to each of the following:
 - 4A. Mention two actions of estrogen.
 - 4B. Define deglutition. Mention the stages of deglutition.
 - 4C. What is hemophilia? What is its cause?
 - 4D. How much is the normal body temperature? Name ONE change in the body when exposed to cold.
 - 4E. Mention the effects of sectioning of a motor nerve.
 - 4F. List the functions of placenta.
 - 4G. List the hormones which increase blood glucose level.
 - 4H. Name the lymphatic organs in the body. Mention the function of one of them.
 - 4I. What is meant by oxygen carrying capacity of blood? Give its normal value.
 - 4J. Mention the functions of saliva. (2×10 = 20 marks)



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

MANIPAL UNIVERSITY

FIRST YEAR B.P.T./B.O.T/ B.Sc. M.L.T./ B.Sc. N.M.T./ B.Sc. R.T./ B.Sc. M.I.T./ B.Sc.C.V.T
DEGREE EXAMINATION – MAY 2009

SUBJECT: BIOCHEMISTRY
(NEW REGULATIONS)

Wednesday, May 20, 2009

Time: 10.00-11.30 Hours

Max. Marks: 40

1. Explain the β -oxidation of palmitic acid. Add note on its energetic. (5+2 = 7 marks)
2. Describe the pathway of urea synthesis. Mention the disorders of urea cycle with defect. (4+2 = 6 marks)
3. Give an account of glycogen metabolism. (3+3 = 6 marks)
4. Discuss protein energy malnutrition in detail. (7 marks)
5. Explain how substrate concentration affects enzyme activity. (4 marks)
6. Write the steps involved in the activation of vitamin D in the body. (3 marks)
7. Write note on Dietary Fibers. (3 marks)
8. Explain Essential fatty acids under the following Definition, examples and functions. ($\frac{1}{2}+1+2\frac{1}{2} = 4$ marks)



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

MANIPAL UNIVERSITY

FIRST YEAR B.O.T. DEGREE EXAMINATION – MAY 2009

SUBJECT: PSYCHOLOGY – I

Thursday, May 21, 2009

Time: 10.00-13.00 Hrs.

Max. Marks: 80

-
- ✍ **Answer ALL questions.**
 - ✍ **All questions carry equal marks.**

1. What are the normal styles of personality?
2. What are the stages of language development?
3. Discuss perceptual processes.
4. What are the components of cognitive and observational learning?
5. How is man motivated by biological factors?
6. What are the theories of memory and forgetting?
7. What are the coping mechanisms in different types of conflicts?
8. Discuss Kohlberg's theory of moral development.



MANIPAL UNIVERSITY**FIRST YEAR B.O.T. DEGREE EXAMINATION – MAY 2009****SUBJECT: OCCUPATIONAL THERAPY – I
(Therapeutic Activities)**

Friday, May 22, 2009

Time: 10.00-13.00 Hrs.

Max. Marks: 80

✍ Answer ALL the questions.

1. Define Group. Explain the observation and interaction process in the practice of group work.
(3+12 = 15 marks)
2. Explain the concept of occupational adaptation. Describe the adaptive response mechanism with schematic representation.
(5+10 = 15 marks)
3. Define occupational therapy and in detail explain the types of occupational therapy practice.
(3+12 = 15 marks)
4. Define and describe therapeutic adaptations. Discuss the different types of therapeutic adaptations used in Occupational Therapy.
(3+12 = 15 marks)
5. Short notes:
 - 5A. Illustrate neatly the Brachial Plexus.
 - 5B. Write short note on AIOTA.
 - 5C. Evidence based practice in occupational therapy.
 - 5D. OCAIRS.
(5×4 = 20 marks)

