

MANIPAL UNIVERSITY

FIRST YEAR B.P.T./B.O.T. DEGREE EXAMINATION – AUGUST 2013

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

Monday, August 26, 2013

Time: 10.00-13.00 Hours.

Max. Marks: 80

1. Describe the Radial nerve under following headings:

- 1A. Origin
- 1B. Course
- 1C. Branches and distribution
- 1D. Clinical anatomy

(1+5+10+4 = 20 marks)

2. Describe the ankle joint under following headings:

- 2A. Articulating parts
- 2B. Type and subtype
- 2C. Capsule and ligaments
- 2D. Movements and muscles producing them
- 2E. Applied anatomy

(2+2+7+7+2 = 20 marks)

3. Write briefly on:

- 3A. Circle of Willis.
- 3B. Facial nerve.
- 3C. Classification and functions of Cerebellum.
- 3D. Corticospinal tract.
- 3E. Parts and functions of basal nuclei.

(5×5 = 25 marks)

4. Write short notes on:

- 4A. Fibrous joints.
- 4B. Parts and position of uterus.
- 4C. Arch of aorta.
- 4D. Pleura.
- 4E. Oesophagus.

(3×5 = 15 marks)



MANIPAL UNIVERSITY

FIRST YEAR B.O.T./ B.Sc. M.L.T./ B.Sc. MIT./ B.Sc. R.T. DEGREE EXAMINATION – AUGUST 2013

SUBJECT: PHYSIOLOGY

Tuesday, August 27, 2013

Time: 10.00-11.30 Hrs.

Max. Marks: 40

✍ **Answer all questions. Draw diagrams wherever necessary.**

1. Essay Questions:

- 1A. Write the steps involved in the intrinsic and extrinsic mechanisms of blood coagulation.
 - 1B. Define cardiac output. Give its normal value. Describe the regulation of cardiac output.
 - 1C. Draw and label the pathway for light reflex. Add a note on myopia.
 - 1D. Mention any three functions of growth hormone. List two clinical features of acromegaly.
- (5×4 = 20 marks)

2. Write short answers for the following:

- 2A. Mention two actions of testosterone.
 - 2B. List the movements of small intestine.
 - 2C. List any two functions of hypothalamus.
 - 2D. Mention any two properties of sensory receptors.
 - 2E. Define vital capacity. Give its normal value in adult males.
 - 2F. Mention two functions of platelets.
 - 2G. List two differences between cardiac and smooth muscles.
 - 2H. List two functions of lymph.
 - 2I. Define the terms:
 - i) Transport maximum.
 - ii) Glomerular filtration rate
 - 2J. Draw a labeled diagram of the nerve action potential.
- (2×10 = 20 marks)



MANIPAL UNIVERSITY

FIRST YEAR B.O.T DEGREE EXAMINATION – AUGUST 2013

SUBJECT: BIOCHEMISTRY

(2011 BATCH)

Wednesday, August 28, 2013

Time: 10.00-11.30 Hrs

Max. Marks: 40

✍ Answer ALL questions.

✍ Draw diagrams and flow charts wherever appropriate.

1. Write in detail the reactions of aerobic glycolysis.

(8 marks)

2. Write the reactions of β -oxidation of palmitic acid.

(6 marks)

3. Write short notes on the following:

3A. Lactose intolerance.

3B. Effect of substrate concentration on enzyme activity with a graph.

3C. Role of vitamin C and copper in collagen biosynthesis.

3D. THREE similarities and differences each between the types of protein energy malnutrition.

(4×4 = 16 marks)

4. Answer the following:

4A. Define the terms replication and translation.

4B. Classify acidosis with ONE example each.

4C. Write the normal serum levels of fasting glucose, total cholesterol, creatinine and urea.

4D. Write ONE reaction each in which coenzyme forms of thiamine and niacin are required.

4E. Explain mutual supplementation of proteins with the help of an example.

(2×5 = 10 marks)



MANIPAL UNIVERSITY

FIRST YEAR B.O.T. DEGREE EXAMINATION – AUGUST 2013

SUBJECT: GENERAL PSYCHOLOGY (NEW REGULATION)

Thursday, August 29, 2013

Time: 10:00-13:00 Hrs.

Max. Marks: 80

1. Choose the single best answer:

- 1A. Psychologist who proposed that behavior is affected by reinforcement?
- | | |
|------------------|------------------|
| a) B.F Skinner | b) Sigmund Freud |
| c) William James | d) Wilhelm Wundt |
- 1B. A type of thinking which is aimed at solving problems or creating something new is called
- | | |
|----------------------|----------------------|
| a) Creative thinking | b) Autistic thinking |
| c) Directed thinking | d) Symbolic thinking |
- 1C. The technique used to transfer short term memory information to long term memory is:
- | | |
|--------------|------------------|
| a) Chunking | b) Echoic memory |
| c) Retrieval | d) Rehearsal |
- 1D. “A rule of thumb” is another name for:
- | | |
|--------------------|---------------------------|
| a) Heuristics | b) Algorithm |
| c) Trial and error | d) Means and end analysis |
- 1E. According to Hippocrates, choleric humor is associated with the temperament:
- | | |
|-------------------------|---------------------|
| a) Cheerful and active | b) Sad |
| c) Anger and aggressive | d) Calm and Passive |

(1×5 = 5 marks)

2. Write definitions on any FIVE of the following:

- 2A. Experimental method
- 2B. Motivation
- 2C. Token economy
- 2D. Self-Actualization
- 2E. Mental Set
- 2F. Shape Constancy
- 2G. Repression

(3×5 = 15 marks)

3. Write short notes on any SIX of the following:

- 3A. Influence of heredity and environment on Intelligence
- 3B. Types of Conflict
- 3C. Measurement of Aptitude

- 3D. Types of Reasoning
- 3E. Laws of Learning
- 3F. Psychoanalytic Approach to Personality
- 3G. Types of Memory
- 3H. Illusion and its types
- 3I. Cannon- Bard Theory of Emotion

(5×6 = 30 marks)

4. Write essay on any TWO of the following:

- 4A. Define Operant Conditioning. Briefly explain the various schedules of reinforcement.
- 4B. Elaborate on any three methods used in Psychology.
- 4C. Define Intelligence. Explain any three theories of Intelligence.

(15×2 = 30 marks)



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MANIPAL UNIVERSITY

FIRST YEAR B.O.T. DEGREE EXAMINATION – AUGUST 2013

SUBJECT: OCCUPATIONAL THERAPY FUNDAMENTALS
(NEW REGULATION)

Friday, August 30, 2013

Time: 10:00-11:30 Hrs.

Max. Marks: 40

✍ Answer ALL questions:

1. Long Questions:

- 1A. Discuss three general purposes of occupational therapy.
- 1B. Describe five assumptions about human beings.

(10+10 = 20 marks)

2. Short Notes:

- 2A. Write a short note on contributions by Susan E. Tracy.
- 2B. Write the significance of 'Description of the Retreat' in the humane approach of treatment.
- 2C. Short note on 'low stimulus environment'.
- 2D. Performance patterns of a "person".

(5×4 = 20 marks)



MANIPAL UNIVERSITY**FIRST YEAR B.O.T. DEGREE EXAMINATION – AUGUST 2013****SUBJECT: BASICS OF OCCUPATIONAL THERAPY ASSESSMENT
(NEW REGULATION)**

Saturday, August 31, 2013

Time: 10:00-11:30 Hrs.

Max. Marks: 40

Answer All the questions:

1. Define evaluation. Explain the methods of evaluation in detail.
(2+8 = 10 marks)
2. Write a detail note on principles and procedures of joint measurement.
(5+5 = 10 marks)
3. **Short notes:**
 - 3A. Purpose of history taking.
 - 3B. Role of sensation in occupational functioning.
 - 3C. Any five factors that influencing strength.
 - 3D. Occupational diagnosis on activities of daily living.
(5×4 = 20 marks)

