

# MANIPAL UNIVERSITY

## THIRD YEAR B.Sc. C.V.T./B.Sc. M.R.T/B.Sc. R.T./B.Sc. M.L.T./ FOURTH YEAR B.O.T./B.P.T. DEGREE EXAMINATION – DECEMBER 2016

### SUBJECT: BIOSTATISTICS & RESEARCH METHODOLOGY/RESEARCH METHODOLOGY & STATISTICS/BIOSTATISTICS/BASIC BIOSTATISTICS & RESEARCH METHODOLOGY/RESEARCH METHODOLOGY AND BIOSTATISTICS

Thursday, December 15, 2016

Time: 10:00-13:00 Hrs.

Max. Marks: 80

☞ Answer ALL the questions.

1. Explain the steps in a research process. (5 marks)
  
2. Form a frequency table along with relative frequencies for the ages of 48 patients given below. (Class intervals: 0 – 15, 15 – 30, 30 – 45, so on)
 

30	39	53	47	64	31	10	36	29	40	22	40
76	33	46	17	38	50	30	34	25	36	39	36
15	65	39	43	62	30	07	47	32	36	42	42
47	27	32	39	24	57	37	43	43	54	40	39

(5 marks)
  
3. Compute the range, 85<sup>th</sup> percentile, first and third quartiles for the data on duration in days of chicken pox disease in 10 patients.
 

14	15	14	17	17	13	15	11	10	14
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(10 marks)
  
4. The duration of time for the first exposure to HIV infection to AIDS diagnosis is called the incubation period. The incubation periods of a random sample of 10 HIV infected individuals is given below (in yrs):
 

7.5	11.0	10.5	10.0	6.5	13.5	12.0	7.5	11.5	10.0
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- 4A. Calculate mean, median and standard deviation of incubation period.
- 4B. If the number 6.5 above were changed to 9.5, what would happen to the mean and median? State whether each would increase, decrease or remain the same. (10 marks)
  
5. With the help of scatter diagram explain correlation. (6 marks)
  
6. **Classify the following into different scales of measurement:**

a) Age	b) Gender	c) Temperature (°F)	d) Marital status
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(4 marks)

**MANIPAL UNIVERSITY****FOURTH YEAR B.O.T. DEGREE EXAMINATION – DECEMBER 2016****SUBJECT: GENERAL MEDICINE  
(2010 SCHEME)**

Friday, December 16, 2016

Time: 10:00-13:00 Hrs.

Max. Marks: 80

**1. Answer any THREE of the following:**

1A. Define ARDS (Acute Respiratory Distress Syndrome). Discuss its etiopathogenesis, clinical features, investigation and management.

(2+3+5+3+2 = 15 marks)

1B. What is Acute renal failure? Discuss the pathophysiology, clinical features, complications and treatment of acute renal failure.

(2+3+4+4+2 = 15 marks)

1C. What is Congestive Cardiac Failure? Discuss the etiology, pathophysiology, clinical features, and management of chronic heart failure.

(2+5+4+4 = 15 marks)

1D. What are the types of poisonous snake bite? Describe clinical features, diagnosis, complications and management of Poisonous snake bite.

(2+5+5+3 = 15 marks)

**2. Answer ALL the following questions:**

2A. Management of needle prick injury

2B. Metabolic syndrome

2C. Management of Bronchial Asthma

2D. Megaloblastic Anemia

2E. Management of Organophosphorus Poisoning

2F. Mucocutaneous Manifestations in HIV

(5 marks × 6 = 30 marks)

**3. Answer the following:**

3. Skin lesions in leprosy

(5 marks)



**MANIPAL UNIVERSITY****FOURTH YEAR B.O.T. DEGREE EXAMINATION – DECEMBER 2016****SUBJECT: GENERAL MEDICINE  
(2011 BATCH)**

Friday, December 16, 2016

Time: 10:00-13:00 Hrs.

Max. Marks: 80

**1. Answer any THREE of the following:**

- 1A. Discuss the causes, clinical features, investigations and management of ischemic heart disease.
- 1B. Classify leukemia. Discuss the clinical features, investigations and management of acute myeloid leukemia.
- 1C. Discuss the etiopathogenesis, clinical features, complications and management of bronchial asthma.
- 1D. Discuss the types, etiopathogenesis, clinical features, investigations and management of diabetes mellitus.

(15 marks × 3 = 45 marks)

**2. Write short notes on:**

- 2A. Thrombocytopenia
- 2B. Management of chronic kidney disease
- 2C. Investigations and management of pulmonary tuberculosis
- 2D. Obesity
- 2E. Universal precautions in ICU
- 2F. Herpes simplex virus infection
- 2G. Iron deficiency anemia

(5 marks × 7 = 35 marks)





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## MANIPAL UNIVERSITY

FOURTH YEAR B.O.T. DEGREE EXAMINATION – DECEMBER 2016

SUBJECT: GENERAL SURGERY  
(2011 SCHEME)

Saturday, December 17, 2016

Time: 10:00-13:00 Hrs.

Max. Marks: 80

1. **Answer ALL questions:**

- 1A. Define and classify wounds. Describe factors affecting wound healing and complications of wound healing.
- 1B. Discuss etiology for carcinoma breast and indications for modified radical mastectomy. Add a note on the types mastectomies.
- 1C. Etiology for coronary artery disease. Discuss about medical and surgical management of ischemic heart disease.
- 1D. Discuss about pulmonary complications of tuberculosis and complications.
- 1E. What are causes for lower limb ischemia? Discuss management of peripheral arterial disease of lower limb.

(10 marks × 5 = 50 marks)

2. **Write short answers on:**

- 2A. What are the types of blood products? Discuss complications of blood transfusion.
- 2B. Discuss about types of colostomy and its care.
- 2C. What is tracheostomy? Discuss about indications, contraindications and care of it.
- 2D. Causes and treatment of trophic ulcer.
- 2E. Types of skin graft. What are the indications and contraindications of skin graft? Describe post-operative care of skin graft.
- 2F. Discuss the metabolic response in a post-operative patient.

(5 marks × 6 = 30 marks)



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## MANIPAL UNIVERSITY

FOURTH YEAR B.O.T. DEGREE EXAMINATION – DECEMBER 2016

SUBJECT: OCCUPATIONAL THERAPY PRACTICE ISSUES  
(2011 SCHEME)

Monday, December 19, 2016

Time: 10:00-11:30 Hrs.

Max. Marks: 40

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✍ **Answer ALL questions.**

✍ **Long questions:**

1. Explain the purpose of communication and describe guidelines for documentation in clinical settings.

(3+7 = 10 marks)

2. Explain the roles and functions of office bearers and Commissions of American Occupational Therapy Association (AOTA)

(5+5 = 10 marks)

3. **Write short notes on:**

3A. Management and marketing strategies for consultants

3B. Cultural environment in client-centered practice

3C. Procedural reasoning

3D. Strategies for Continuing Professional Development and Education

(5 marks × 4 = 20 marks)



**MANIPAL UNIVERSITY****FOURTH YEAR B.O.T. DEGREE EXAMINATION – DECEMBER 2016****SUBJECT: PSYCHIATRY AND CLINICAL PSYCHOLOGY  
(2011 SCHEME)**

Tuesday, December 20, 2016

Time: 10:00-13:00 Hrs.

Max. Marks: 80

**✍ Answer ALL questions:****SECTION – A (CLINICAL PSYCHOLOGY)****1. Write essay on:**

- 1A. Discuss Cognitive Behavior Therapy and its application.
- 1B. Define stress and explain the various stress management strategies.

(10 marks × 2 = 20 marks)

**2. Write short notes on the following:**

- 2A. Any two perspectives of normality and abnormality
- 2B. ICD and DSM Classification
- 2C. Observation and Survey method of Psychology
- 2D. Client-centered approach to counselling

(5 marks × 4 = 20 marks)

**SECTION – B (CLINICAL PSYCHIATRY)****3. Write essay on:**

- 3A. Mention the ICD-10 Criteria for Obsessive-Compulsive disorder and discuss the non-pharmacological management of OCD.
- 3B. Describe the clinical features of different types of Epilepsy.

(10 marks × 2 = 20 marks)

**4. Write short notes on:**

- 4A. Erectile dysfunction
- 4B. Sensory integration
- 4C. Specific learning disorders
- 4D. Clinical features of Autism

(5 marks × 4 = 20 marks)





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## MANIPAL UNIVERSITY

### FOURTH YEAR B.O.T. DEGREE EXAMINATION – DECEMBER 2016

SUBJECT: OCCUPATIONAL THERAPY IN PEDIATRICS AND DEVELOPMENTAL DISABILITIES  
(2011 SCHEME)

Wednesday, December 21, 2016

Time: 10:00-13:00 Hrs.

Max. Marks: 80

✍ Answer ALL the questions.

✍ Long Essays:

1. Classify grasp patterns. Explain the goals and intervention strategies for improving grasp in children with disabilities.

(5+15 = 20 marks)

2. Explain the methods of evaluation for feeding problems and the neuromuscular interventions for oral motor impairments in feeding.

(8+12 = 20 marks)

3. Write short notes on:

3A. Describe the domains of concern in pediatric occupational therapy.

3B. Model of team dynamics in early intervention system

3C. Describe the visual cognitive components and its methods of evaluation.

3D. Explain the types of spina bifida and the occupational therapy management for the same.

(10 marks × 4 = 40 marks)



**MANIPAL UNIVERSITY****FOURTH YEAR B.O.T. DEGREE EXAMINATION – DECEMBER 2016****SUBJECT: OCCUPATIONAL THERAPY IN MENTAL HEALTH  
(2011 SCHEME)**

Thursday, December 22, 2016

Time: 10:00-13:00 Hrs.

Max. Marks: 80

✍ **Answer ALL questions.**

✍ **Long Essays:**

1. Describe any five behavioural techniques used in psychosocial occupational therapy practice with examples.

(4 marks × 5 = 20 marks)

2. Describe the psychiatric occupational therapy assessment process with appropriate illustration.

(20 marks)

3. **Write short notes on:**

3A. Explain any five areas of occupational dysfunction in hebephrenic schizophrenia.

(10 marks)

3B. Importance of group cohesiveness and strategies to facilitate the same

(4+6 = 10 marks)

3C. Contributions and limitations of Model of Human Occupation

(5+5 = 10 marks)

3D. Any four stress management techniques used in occupational therapy

(10 marks)





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**MANIPAL UNIVERSITY**  
**FOURTH YEAR B.O.T. DEGREE EXAMINATION – DECEMBER 2016**  
**SUBJECT: OCCUPATIONAL THERAPY IN COMMUNITY PRACTICE**  
**(2011 SCHEME)**

Friday, December 23, 2016

Max. Marks: 40

Time: 10:00-11:30 Hrs.

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✍ **Answer ALL questions.**

✍ **Long Essays:**

1. Describe any four important occupational therapy practitioner's role in community based rehabilitation. (10 marks)
  
2. Explain about Ecology of Human Performance model in relation to community based practice. (10 marks)
  
3. **Write short notes on:**
  - 3A. Needs, skills and capacities in occupational context. (5 marks)
  
  - 3B. Define the following:  
i) Theory                      ii) Paradigm (2½+2½ = 5 marks)
  
  - 3C. Effects of community care policies. (5 marks)
  
  - 3D. Define public health and its strategies. (5 marks)

