

Serial No. 6028

Roll No. \_\_\_\_\_

**BACHELOR OF PHYSIOTHERAPY 2nd YEAR ANNUAL EXAMINATION- JUNE 2016  
(PATHOLOGY & MICROBIOLOGY, PAPER CODE: 0305201)**

**Time: 03 Hours**

**Max. Marks: 80**

**Instructions:**

1. Write Your Roll No. on the Question Paper.
2. Candidates should ensure that they have been provided with the correct question paper. Complaints in this regard, if any, should be made within 15 minutes of the commencement of the exam. No Complaints will be entertained thereafter.
3. Draw the diagram wherever required.
4. Question paper consists of two parts-part-I and part- II. Max. marks for each part are 40 marks. **Use separate answer book for each part.** Any lapse in this regard shall be at the risk and responsibility of the examinee and no complaint in this regard will be entertained after the exam.

**PART-I (PATHOLOGY)**

**(Attempt three questions. Q. No-1 is compulsory. Attempt any two questions out of question No-2 to 4)**

1. Define inflammation. Describe vascular and cellular events of inflammation. Enumerate causes of granulomatous inflammation and describe morphology of tuberculous inflammation. (14)
2. **Write Differences between:-**
  - a- Dystrophic and Metastatic calcification (07)
  - b- Red and White infarct (06)
3. **Write short notes on:-**
  - a- Cirrhosis liver (07)
  - b- Myositis ossificans (06)
4. **Describe in brief:-**
  - a- Atherosclerosis (07)
  - b- Thrombocytopenia (06)

**PART-II (MICROBIOLOGY)**

**(Attempt three questions. Q. No-1 is compulsory. Attempt any two questions out of question No-2 to 4)**

1. Define the terms Sterilization, Disinfection and Pasteurization. Enumerate various methods of sterilization. Outline the principle and working of laboratory autoclave with the help of a diagram. How do you monitor the efficacy of an autoclave? (3+3+6+2=14)
2. **Write short notes on:-**
  - a- Robert Koch (03)
  - b- Bacteriophage (03)
  - c- Immunoglobulin M (03)
  - d- Laboratory diagnosis of malaria (04)
3. **Write briefly about:-**
  - a- Bacterial flagella (03)
  - b- Zeihl Neelsen staining (03)
  - c- Type I hypersensitivity reaction (03)
  - d- Candida albicans (04)
4. **Write briefly on:-**
  - a- Toxins produced by bacteria (03)
  - b- Hepatitis B virus (03)
  - c- Atypical mycobacteria (03)
  - d- Hospital- acquired infections (04)

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Serial No. 6029

Roll No. \_\_\_\_\_

**BACHELOR OF PHYSIOTHERAPY 2<sup>nd</sup> YEAR ANNUAL EXAMINATION - JUNE 2016  
(PHARMACOLOGY, PAPER CODE: 0305202)**

**Time: 03 Hours**

**Max. Marks: 80**

**Instructions:**

1. Write Roll No. on the Question Paper.
2. Candidates should ensure that they have been provided with the correct question paper. Complaints in this regard, if any, should be made within 15 minutes of the commencement of the exam. No Complaints will be entertained thereafter.
3. Draw the diagram wherever required.
4. Question No – 1 is compulsory. Attempt any five questions out of the remaining seven.

1. Classify Antihypertensive drugs. Discuss mechanism of action, therapeutics uses and adverse effects of ACE Inhibitors. (7+1+2+5=15)
2. Describe briefly: (7+6=13)
  - a- Drug antagonism
  - b- Oxidizing agents
3. Give therapeutic uses and adverse effects of: (7+6=13)
  - a- Corticosteroid
  - b- Atropine
4. Write short notes on: (7+6=13)
  - a- Centrally acting muscle relaxants
  - b- Lignocaine
5. Give drug treatment of the following: (7+6=13)
  - a- Status epilepticus
  - b- Iron deficiency anaemia
6. Describe briefly: (7+6=13)
  - a- Extended spectrum penicillins
  - b- Antacids
7. Give mechanism of action & therapeutic uses of: (7+6=13)
  - a- Ciprofloxacin
  - b- Erythromycin
8. Give mechanism of action & adverse effects of: (7+6=13)
  - a- Drug used in shock
  - b- Quinolones

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Serial No. 6030

Roll No. \_\_\_\_\_

**BACHELOR OF PHYSIOTHERAPY 2<sup>nd</sup> YEAR ANNUAL EXAMINATION- JUNE 2016  
(BIOMECHANICS, PAPER CODE: 0305203)**

**Time: 03 Hours**

**Max. Marks: 80**

**Instructions:**

1. Write Roll No. on the Question Paper.
2. Candidates should ensure that they have been provided with the correct question paper. Complaints in this regard, if any, should be made within 15 minutes of the commencement of the exam. No Complaints will be entertained thereafter.
3. Draw the diagram wherever required.
4. Question No – 1 is compulsory. Attempt any five questions out of the remaining seven.

1. Define Gait. Explain briefly the phases and determinants of Gait. (15)
2. What is Posture? Discuss postural analysis with respect to optional alignment of joints in antero-posterior and lateral views. (13)
3. Describe the Locking and Unlocking mechanism of knee joint in detail. (13)
4. Explain the anatomy and general features of shoulder joint. (13)  
Discuss Scapulo- Humeral Rhythm.
5. Define Lever. Explain the types of levers found in relevance to human body with the help of suitable examples. (13)
6. **Write short notes on following:** (7+6=13)
  - a- Centre of gravity
  - b- Active and Passive insufficiency
7. Describe Muscle Structure and function with the help of a suitable diagram. (13)
8. **Write notes on following:** (5+5+3=13)
  - a- Types of grips
  - c- Closed and open Kinematic Chain
  - d- Q angle

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Serial No. 6031

Roll No. \_\_\_\_\_

**BACHELOR OF PHYSIOTHERAPY- 2<sup>nd</sup> YEAR ANNUAL EXAMINATION, JUNE 2016  
(ELECTROTHERAPY - II, PAPER CODE: 0305204)**

**Time: 03 Hours**

**Max. Marks: 80**

**Instructions:**

1. Write Roll No. on the Question Paper.
2. Candidates should ensure that they have been provided with the correct question paper. Complaints in this regard, if any, should be made within 15 minutes of the commencement of the exam. No Complaints will be entertained thereafter.
3. Draw the diagram wherever required.
4. Question No – 1 is compulsory.
5. Attempt any five questions out of the remaining seven.

**Section – I**

1. Discuss in details about properties, therapeutic effects, indications and contraindications of LASER. (15)

**Section – II**

2. Discuss briefly about basic principle of IFT. Explain beat frequency and frequency sweep.(13)
3. Explain therapeutic effects, indications and contraindications of Biofeedback. (13)
4. Discuss briefly about patient preparation in and dosimetry of MWD. (13)
5. Discuss in detail Physiological and therapeutic effects of UVR. (13)
6. Discuss briefly about physical principle of Electromagnetic Radiations. (13)
7. Discuss briefly about therapeutic effects, methods of application and indications of Infra red rays. (13)
9. **Write short notes on following:** (13)
  - a- Coupling medium in Ultrasound application
  - b- Biophysical effects of SWD

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Serial No. 6032

Roll No. \_\_\_\_\_

**BACHELOR OF PHYSIOTHERAPY – 2<sup>nd</sup> YEAR ANNUAL EXAMINATION, JUNE 2016  
(EXERCISE THERAPY - II, PAPER CODE: 0305205)**

**Time: 03 Hours**

**Max. Marks: 80**

**Instructions:**

1. Write Roll No. on the Question Paper.
2. Candidates should ensure that they have been provided with the correct question paper. Complaints in this regard, if any, should be made within 15 minutes of the commencement of the exam. No Complaints will be entertained thereafter.
3. Draw the diagram wherever required.
4. Question No – 1 is compulsory.
5. Attempt five more questions out of question No. 2 to 8.

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1. Define PNF. Explain its basic principles and various techniques. (15)
  2. Write in detail about forward head posture along with its assessment and management. (13)
  3. Define joint mobilization. Explain its principles and grades of mobilization. (13)
  4. Write short notes on:- (13)
    - a- Muscle Insufficiency
    - b- Balance Examination
  5. What is Gait Cycle? Write its phases and various components. (13)
  6. What are the basic principles and equipments used in Hydrotherapy? (13)
  7. What are different techniques of progressive strengthening exercises? (13)
  8. Write in short about:- (13)
    - a- Principle of traction
    - b- Neuromuscular in coordination

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Serial No. 6033

Roll No. \_\_\_\_\_

**BACHELOR OF PHYSIOTHERAPY IInd YEAR ANNUAL EXAM-JUNE 2016**  
**(PSYCHOLOGY & SOCIOLOGY, Paper Code: 305206)**

Time: 03 Hours

Max. Marks: 80

**Instructions:**

1. Candidates should write their Roll No. on the Question Paper.
2. Candidates should ensure that they have been provided with the correct question paper. Complaint in this regard, if any, should be made within 15 minutes of the commencement of the exam. No Complaint will be entertained thereafter.
3. Draw the diagram wherever required.
4. Question paper consists of two parts – Part I (Psychology) and Part-II (Sociology). Max. marks for each part are 40. **Use separate answer book for each part.** Any lapse in this regard shall be at the risk and responsibility of the examinee and no complaint in this regard will be entertained after the exam.

**PART –I (PSYCHOLOGY)**

**Attempt any Five questions out of Q1 to 7 :**

- Q1. a) Define Psychology as a science. (4+4=8)  
b) Explain illusions in detail.
- Q2. a) Describe Bhatia Battery performance test of intelligence (4+4=8)  
b) Discuss the death & bereavement in detail
- Q3. a) Explain Hunger as a basic motivator (4+4=8)  
b) Discuss the stages of acceptance
- Q4. a) Explain the role of family and culture in personality (4+4=8)  
b) Discuss the counseling and its principles
- Q5. a) Explain briefly classical conditioning experiment (4+4=8)  
b) Discuss the nature and factors of improving compliance
- Q6. a) Define leadership. Explain physical and psychological Characteristics of a leader (4+4=8)  
b) What is the role of psychological factors in handicapped patients?
- Q7. Write down the following in detail : (4+4=8)  
a) Dental  
b) Regression

**PART –II (SOCIOLOGY)**

- Q1. What do you understand by social group? What are the different types of social groups and what are their implications on health and sickness? (12)

**Attempt any Four questions out of Q2 to 8 : (4x7=28)**

- Q2. What is population explosion and what are its consequences?
- Q3. Write down the features of modern caste system and its trends?
- Q4. What are the different uses of the study of sociology?
- Q5. Social factors are a major determinant of health status of an individual. Comment on this statement.
- Q6. What is a family? What are different functions of a family? Elaborate.
- Q7. What is juvenile delinquency? Why is it an important problem in sociology?
- Q8. What do you understand by culture? Does culture influence perception of reality? If so, how?

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