



**KARANALA: WINTER - 2016**  
**SUBJECT : PAPER – I: BASIC SCIENCES AS APPLIED TO ORTHOPAEDICS**

Day : Saturday  
Date : 03/12/2016

Time : 2.00 P.M. TO 5.00 P.M.  
Max. Marks : 100

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat diagrams **WHEREVER** necessary.
- 4) Your answer will be valued as a whole.

**Q.1** Describe the embryological development of vertebra and its clinical [15]  
significance and write note on management of Scheurmann's disease.  
<https://www.freshersnow.com/previous-year-question-papers/>

**Q.2** Discuss role of stem cell in orthopaedics. [15]

**Q.3** Write **ANY SEVEN** of the following: [70]

- i) Discuss biomechanics of knee joint with respect to TKA.
- ii) Discuss management of Radial club hand.
- iii) Discuss management of Fat Embolism.
- iv) Discuss the implants in orthopaedics
- v) What is cauda equina syndrome and discuss its management?
- vi) Discuss bone graft in Orthopaedic.
- vii) Discuss about clinical features and management of ARDS.
- viii) Enumerate causes of wrist drop and discuss its management.

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**KARANALA: WINTER - 2016**  
**SUBJECT : PAPER – II: BONE & JOINT INJURIES**



Day : Monday  
Date : 05/12/2016

Time : 2.00 P.M. TO 5.00 P.M.  
Max. Marks : 100

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat diagrams **WHEREVER** necessary.
- 4) Your answer will be valued as a whole.

- Q.1** Classify pelvic fractures. Discuss its management. [15]
- Q.2** Describe classification and management of supracondylar fracture humerus in children. [15]
- Q.3** Write **ANY SEVEN** of the following: [70]
- i) Describe aetiopathogenesis and management of biceps tendon rupture.
  - ii) Describe classification, management and complications of Talar neck fracture.
  - iii) Enumerate complications of fractures of lower end radius. Discuss management of Malunited Lower end radius fracture.
  - iv) Classify Acromioclavicular joint injuries and its management.
  - v) Discuss management of infected non union of midshaft tibia fracture.
  - vi) Discuss surgical anatomy and of MCL and management of MCL injuries.
  - vii) Describe classification and management of lisfranc's injury.
  - viii) Use of suture anchor in orthopaedics.

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**KARANALA: WINTER - 2016**  
**SUBJECT : PAPER – III: BONE & JOINT DISEASES**

Day : Wednesday  
Date : 07/12/2016

Time : 2.00 P.M. TO 5.00 P.M.  
Max. Marks : 100

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat diagrams **WHEREVER** necessary.
- 4) Your answer will be valued as a whole.

- Q.1** Describe clinico pathological features of osteosarcoma, discuss recent [15]  
treatment in limb salvage surgery in osteosarcoma.
- Q.2** Discuss aetiopathology of tetanus and its management. [15]
- Q.3** Write **ANY SEVEN** of the following: [70]
- i) Enumerate cystic lesions of bone and management.
  - ii) Tumor markers in orthopaedics.
  - iii) What is biodegradable implants and its used in orthopaedics?
  - iv) Discuss management of neurogenic bladder.
  - v) Sings index.
  - vi) RNTPC for psoas abscess.
  - vii) Myoelectric prosthesis.
  - viii) Discuss clinical feature and management of rickets.

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**KARANALA: WINTER - 2016**  
**SUBJECT : PAPER – IV: RECENT ADVANCES AND ALLIED SUBJECTS**

Day : Friday  
Date : 09/12/2016

Time : 2.00 P.M. TO 5.00 P.M.  
Max. Marks : 100


**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat diagrams **WHEREVER** necessary.
- 4) Your answer will be valued as a whole.

- Q.1** Describe principles of tendon transfer. Discuss tendon transfers done in Radial Nerve Palsy. [15]
- Q.2** Discuss management of patient with penetrating intra-abdominal injury due to road traffic accident. [15]
- Q.3** Write **ANY SEVEN** of the following: [70]
- i) Describe role of Laminar Air Flow in Operation Theatre.
  - ii) PET Scan.
  - iii) Robotic surgeries in Orthopaedics.
  - iv) Autologous Cartilage Implantation (ACI).
  - v) Describe management of Diabetic foot.
  - vi) Reverse Shoulder Arthroplasty.
  - vii) Single vs Double Bundle ACL reconstruction.
  - viii) Percutaneous Lumbar Pedicular Screw Fixation.

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**KARNALA : SUMMER 2015**  
**SUBJECT : PAPER- II : BONE AND JOINT INJURIES**

Day : Wednesday  
Date : 3/6/2015

Time : 2.00 P.M. TO 5.00 P.M  
Max. Marks : 100

**N. B.:**

- 1) All questions are **COMPULSORY**.
- 2) Draw neat diagrams **WHEREVER** necessary.
- 3) Figures to the **RIGHT** indicate full marks.
- 4) Your answer will be valued as a whole.


**Q.1** Describe Shock, various types of shock and management of poly trauma patient. (15)

**Q.2** Enumerate various injuries sustained by fall from height. Discuss classification and management of Calcaneal fractures. (15)

**Q.3** Attempt any **SEVEN** of the following: (70)

- a) Describe aetiopathogenesis and management of TA rupture.
- b) Describe Hangman's fracture – classification and treatment.
- c) Flail chest diagnosis and management.
- d) Describe terrible triad of elbow fracture dislocation and management.
- e) Describe functions of patella and discuss advantages and disadvantages of pateleectomy.
- f) Discuss treatment protocols for hip fracture in children.
- g) Proximal femoral nail.
- h) Surgical anatomy of Pelvis and management of Pelvic fracture.

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**KARNALA : SUMMER 2015**  
**SUBJECT : PAPER- III : BONE AND JOINT DISEASES**

Day : \_\_\_\_\_  
Date : Friday  
5/6/2015

Time : 2.00 P.M. TO 5.00 P.M  
Max. Marks : 100

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**N. B.:**

- 1) All questions are **COMPULSORY**.
  - 2) Draw neat diagrams **WHEREVER** necessary.
  - 3) Figures to the **RIGHT** indicate full marks.
  - 4) Your answer will be valued as a whole.
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**Q.1** Describe clinicopathological features of osteosarcoma. Discuss recent trends in limb salvage surgery in osteosarcoma and neoadjuvant chemotherapy. (15)

**Q.2** Discuss the aetiology, clinical features and management of Coxaplane. (15)

**Q.3** Attempt any **SEVEN** of the following: (70)

- a) Describe disease modifying antirheumatic drugs.
- b) Madelung's deformity.
- c) Discuss management of Arthrogryposis multiplex congenital.
- d) Describe the principles and steps of Ponsetti's method of CTEV.
- e) Classify periprosthetic fracture following THR and management.
- f) Management of neurogenic bladder.
- g) RNTPC for Psoas abscess.
- h) Tetanus in orthopaedics.

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**KARNATAKA : SUMMER 2015**  
**SUBJECT : PAPER- IV : RECENT ADVANCES AND ALLIED SUBJECTS**

Day : Monday  
Date : 8/6/2015

Time : 2.00 P.M. TO 5.00 P.M  
Max. Marks : 100

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**N. B.:**

- 1) All questions are **COMPULSORY**.
  - 2) Draw neat diagrams **WHEREVER** necessary.
  - 3) Figures to the **RIGHT** indicate full marks.
  - 4) Your answer will be valued as a whole.
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**Q.1** Discuss the aetiology, modern diagnostic methods and management of (15)  
Osteoporosis.

**Q.2** Enumerate indications and contraindications of total knee arthroplasty. Discuss (15)  
revision total knee arthroplasty principles.

**Q.3** Attempt any **SEVEN** of the following: (70)

- a) Platelet rich plasma therapy in orthopaedics.
- b) Skin bank.
- c) Tumour markers in orthopaedics.
- d) Autologous chondrocyte implantation.
- e) Discuss about management of MDR tuberculosis – spine infection.
- f) Myoelectric Prosthesis.
- g) Minimally invasive spine surgery.
- h) Role of BMP in orthopaedics.

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KARNALA : WINTER - 2014

SUBJECT: PAPER - I : BASIC SCIENCES RELATED TO ORTHOPAEDICS

Day: Monday  
Date: 01-12-2014

Time: 2.00 P.M. To 5.00 P.M.  
Max. Marks: 100

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagram **WHEREVER** necessary.
- 4) Your answer will be valued as a whole.

- Q.1 Discuss the pathophysiology of ARDS. How will you treat a case of ARDS following fracture bilateral femur in adult? Add a note on damage control orthopaedics. (25)
- Q.2 Stem cell in othopaedics. (25)
- Q.3 What are the causes of foot drop? Discuss the biomechanics and different principles of management of foot drop. (25)
- Q.4 Write short notes on any **FIVE** of the following: (25)
- a) Plaster of Paris
  - b) Isometric exercises
  - c) Bone Morphogenic protein
  - d) Fibular Hemimelia
  - e) Cauda Equina Syndrome
  - f) Rotator cuff

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KARNALA : WINTER - 2014

SUBJECT: PAPER - II : ORTHOPAEDICS INCLUDING JOINT DISEASES



Day: *Wednesday*  
Date: *03-12-2014*

Time: *2.00 P.M. To 5.00 P.M.*  
Max. Marks: 100

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagram **WHEREVER** necessary.
- 4) Your answer will be valued as a whole.

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- Q.1** Describe deformities of hand in cerebral palsy and various surgical (25)  
procedures for their correction.
- Q.2** Discuss aetiopathology, clinical features and management of tuberculosis of (25)  
spine at D8-9 level.
- Q.3** Discuss aetiopathology, clinical features of Hallux valgus deformity in foot. (25)  
Describe management of Hallux valgus according to severity in young female  
patient.
- Q.4** Write short notes on any **FIVE** of the following: (25)
- a) Mosaicplasty
  - b) Stigmata of Rickets
  - c) SD curve
  - d) Tarsal coalition
  - e) Radial club hand
  - f) DMARD

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KARNALA : WINTER - 2014  
SUBJECT: PAPER - III : FRACTURES & JOINT INJURIES INCLUDING  
OPERATIVE SURGERY

Day: Friday  
Date: 05-12-2014

Time: 2:00 P.M. TO 5:00 P.M.  
Max. Marks: 100

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagram **WHEREVER** necessary.
- 4) Your answer will be valued as a whole.

- Q.1 Classification of Thoraco-Lumbar fractures and describe the management of D12 vertebral fracture with paraplegia. (25)
- Q.2 Describe applied anatomy and management of fracture scaphoid. Describe in detail treatment of avascular necrosis after fracture scaphoid in adult patient. (25)
- Q.3 Describe the principles of management of Brachial plexus injury. (25)
- Q.4 Write short notes on any **FIVE** of the following: (25)
- a) TFCC
  - b) Chance fracture
  - c) Anti gas gangrene serum
  - d) Golden hour
  - e) Perilunate dislocation
  - f) Bankart lesion and its management

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KARNALA : WINTER - 2014

SUBJECT: PAPER - IV : ORTHOPAEDICS RELATED TO RECENT ADVANCES AND REHABILITATION

Day: Monday  
Date: 08-12-2014

Time: 2.00 PM To 5.00 PM  
Max. Marks: 100

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagram **WHEREVER** necessary.
- 4) Your answer will be valued as a whole.

Q.1 Describe types of neuropathic bladder according to level of spinal injury and their management. (25)

Q.2 Describe types of Femoro-Acetabular Impingement and their management (25)

Q.3 Describe treatment of infected 'Non Union' of Tibia by Illizaro Method. (25)

Q.4 Write short notes on any **FIVE** of the following: (25)

- a) Flaps in orthopaedics
- b) Cystic lesions in bone
- c) Sing's index
- d) Peri prosthetic fracture
- e) Biodegradable implants
- f) Platlet rich plasma and its role in orthopaedics

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**KARNATA : JUNE 2014**  
**SUBJECT: PAPER - I : BASIC SCIENCES RELATED TO ORTHOPAEDICS**

Day: **Monday**  
Date: **02-06-2014**

Time: **2:00 P.M. TO 5:00 P.M.**  
Max. Marks: 100

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagram **WHEREVER** necessary.
- 4) Your answer will be valued as a whole.

**Q.1** Describe types of bone grafts. Describe various types of grafts used in orthopaedics. Describe the mechanism of graft integration in the body. (25)

**Q.2** Enumerate various bleeding disorders encountered in orthopaedics practice. What is haemophilic pseudo tumour? Discuss the management. (25)

**Q.3** Describe anatomy of flexor tendons of index finger and surgical principles of its repair in various zones of the finger. (25)

**Q.4** Write short notes on any **FIVE** of the following: (25)

- a) Stress riser
- b) DOTS
- c) Madura foot
- d) Distraction osteogenesis
- e) Stove in chest
- f) Below knee prosthesis

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KARNATA : JUNE 2014  
SUBJECT: PAPER - II : ORTHOPAEDICS INCLUDING JOINT DISEASES

Day: Wednesday  
Date: 04-06-2014

Time: 2:00 P.M. TO 5:00 P.M.  
Max. Marks: 100

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagram **WHEREVER** necessary.
- 4) Your answer will be valued as a whole.

- Q.1** Discuss aetiopathology, clinical features and current concepts in the management of congenital pseudoarthrosis of Tibia. (25)
- Q.2** Describe ligamentous anatomy of knee joint in detail. Discuss the biomechanics of normal knee joint. (25)
- Q.3** Classify bone tumour. Describe general principles of management of malignant bone tumours. What is limb salvage surgery. (25)
- Q.4** Write short notes on any **FIVE** of the following: (25)
- a) Hemivertebrae
  - b) Milwaukee brace
  - c) Calcitonin
  - d) Volkman's Ischemic Contracture
  - e) MRSA infection
  - f) Boutennier deformity

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**KARNALA : JUNE 2014**  
**SUBJECT: PAPER - III : FRACTURES & JOINT INJURIES INCLUDING**  
**OPERATIVE SURGERY**

Day: **Friday**  
Date: **06-06-2014**

Time: **2:00 P.M. TO 5:00**  
Max. Marks: 100

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**N.B.:**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Draw neat and labelled diagram **WHEREVER** necessary.
  - 4) Your answer will be valued as a whole.
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**Q.1** Classify pelvic fractures. Describe clinical features, investigations and their management. What are the complication after pelvic fractures. (25)

**Q.2** What is ATLS? Describe in brief about ATLS. How do you manage a polytraumatised patients using principles of ATLS? (25)

**Q.3** Classify injuries of the spine and discuss the management of cervical spine injuries. (25)

**Q.4** Write short notes on any **FIVE** of the following: (25)

- a) Non-union of Scaphoid
- b) Tendo-Achilles rupture
- c) Plastic deformation
- d) Locking compressing plate
- e) Hangmann's facture
- f) Jeffersons fracture

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KARNALA : JUNE 2014

SUBJECT: PAPER - IV : ORTHOPAEDICS RELATED TO RECENT ADVANCES AND REHABILITATION

Day: **Monday**  
Date: **09-06-2014**

Time: **2:00 P.M-TO 5:00 P**  
Max. Marks: 100

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagram **WHEREVER** necessary.
- 4) Your answer will be valued as a whole.

- Q.1 Define osteoporosis, etiology, classification, investigations and management (25)  
of osteoporosis.
- Q.2 What is the role of ultrasound in orthopaedic diagnosis? (25)
- Q.3 Describe principles of tendon transfers. Describe various tendon transfers for (25)  
equinovarus deformity of foot.
- Q.4 Write short notes on any **FIVE** of the following: (25)
- a) Ligamentotaxis
  - b) Bone bank
  - c) Endolite prosthesis
  - d) Floor reaction orthosis
  - e) PET scan
  - f) Non union of Scapoid

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KARNALA: JUNE-2013  
SUBJECT : PAPER - II - ORTHOPAEDICS INCLUDING JOINT DISEASES

Day : Wednesday  
Date : 05-06-2013

Time : 2:00 P.M. TO 5:00 P.M  
Max. Marks : 100

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagrams **WHEREVER** necessary.
- 4) Your answer will be valued as a whole.

- Q.1 Describe role of minimally invasive surgery (MIS) in Orthopedics. Describe [25]  
the advantages and disadvantages of MIS.
- Q.2 Classify thoracolumbar spine injuries. Give radiological classification of burst [25]  
fracture. Outline the management of burst fracture of LI vertebra.
- Q.3 Describe the management of polio affected equinus foot and ankle disability in [25]  
a young female of 15 years.
- Q.4 Write short notes on **ANY FIVE** of the following: [25]
- a) Artificial Disc Replacement
  - b) Golden hour
  - c) Laminar air flow
  - d) Endo prosthesis
  - e) Intravenous regional anaesthesia

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**KARNALA JUNE-2013**  
**SUBJECT : PAPER - III - FRACTURES & JOINT INJURIES INCLUDING  
OPERATIVE SURGERY**



Day : Friday  
Date : 07-06-2013

Time : 2:00 P.M. TO 5:00 P.M.  
Max. Marks : 100

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagrams **WHEREVER** necessary.
- 4) Your answer will be valued as a whole.

**Q.1** Classify bone tumours. How do you manage a case of swelling of distal end of Radius in Adult? [25]

**Q.2** Discuss calcium metabolism in detail. Write in brief about Osteodystrophy and its management. [25]

**Q.3** Describe anatomy of Flexor tendons of the hand. Describe the injuries of Flexor Tendons of hand and their management. [25]

**Q.4** Write short notes on **ANY FIVE** of the following: [25]

- a) Volkamans Ischaemic Contractures
- b) Anti CCP
- c) Blood components
- d) Tear drop in orthopedics
- e) Neuropathic bladder

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**KARNALA: JUNE-2013**  
**SUBJECT : PAPER - IV - ORTHOPAEDICS RELATED TO RECENT ADVANCES & REHABILITATION**

Day : Monday  
Date : 10-06-2013

Time : 2:00 P.M. TO 5:00 P.M.  
Max. Marks : 100

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagrams **WHEREVER** necessary.
- 4) Your answer will be valued as a whole.

- Q.1 Describe applied anatomy and management of fracture scaphoid. Describe in detail the treatment of avascular necrosis after fracture scaphoid. [25]
- Q.2 Classify Pelvic fractures. Describe clinical features, investigations and their management. What are the complications after pelvic fractures? [25]
- Q.3 Describe the broad principles of tendon transfer. Enumerate the tendon transfer for high radial nerve palsy. [25]
- Q.4 Write short notes on **ANY FIVE** of the following: [25]
- a) Cubitus varus
  - b) Osgood schlatter's disease
  - c) Hoffa's fracture
  - d) Kaplan's fracture dislocation
  - e) Arches of Foot

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M.S.



KARNALA : Oct. Nov-2012

SUBJECT : PAPER-I - BASIC SCIENCES RELATED TO ORTHOPAEDICS

Day : Friday  
Date : 14.12.2012

Time : 2.00 P.M. TO 5.00 P.M.  
Max. Marks : 100.

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Draw diagrams **WHEREVER** necessary.
- 4) Your answer will be valued as a whole.

**Q.1** Describe briefly the stages of fracture healing. Describe chemical, physical (25) modalities to enhance fracture healing.

**Q.2** Discuss aetiopathogenesis, clinical features and management of acute pyogenic (25) arthritis of hip at infancy and at 4 years of age.

**Q.3** Define osteoporosis and write about recent advances of treatment of osteoporosis. (25)

**Q.4** Write short notes on any **THREE** of the following: (25)  
(maximum 8 marks for each short note and one bonus for overall presentation.)

- a) Distraction osteogenesis
- b) Ankyloising spondylitis
- c) Swan neck deformity of finger
- d) Wrist drop
- e) Implant failure.

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KARNALA : Oct-Nov-2012

SUBJECT : PAPER-II - ORTHOPAEDICS INCLUDING JOINT DISEASES

Day : Saturday  
Date : 15-12-2012

Time : 2.00 P.M. To 5.00 P.M.  
Max. Marks : 100.

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Draw diagrams **WHEREVER** necessary.
- 4) Your answer will be valued as a whole.

- Q.1 Describe aetiopathology, clinical features and management of congenital (25)  
dislocation of HIP (CDH).
- Q.2 Describe rotator cuff in shoulder. Describe aetiopathology, clinical features and (25)  
management of rotator cuff diseases (degenerative cuff tear).
- Q.3 Describe aetiopathology, clinical features and management of osteosarcoma of (25)  
upper end of tibia in a young adult male.
- Q.4 Write short notes on any **THREE** of the following: (25)  
(maximum 8 marks for each short note and one bonus for overall presentation.)
- a) Cubitus varus
  - b) Hoffa's fracture
  - c) Osgood schletter's disease
  - d) Pigmented villonodular synovitis
  - e) Osteoblast.

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Oct 17

KARNALA : Oct. Nov- 2012  
SUBJECT : PAPER-III - FRACTURES AND JOINT INJURIES INCLUDING  
OPERATIVE SURGERY



Day : Monday  
Date : 17-12-2012

Time : 2.00 P.M. To 5.00 P.M.  
Max. Marks : 100.

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Draw diagrams **WHEREVER** necessary.
- 4) Your answer will be valued as a whole.

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- Q.1 Describe aetiopathology, clinical features and management of fracture pelvis. (25)
- Q.2 Describe mechanism, clinical features and management of lower cervical spine (C3- C7) injuries. (25)
- Q.3 Describe mechanism, clinical features and management of fracture lower end radius in young adult. (25)
- Q.4 Write short notes on any **THREE** of the following: (25)  
(maximum 8 marks for each short note and one bonus for overall presentation.)
- a) Principles of tendon transfer
  - b) Bisphosphonates
  - c) Distal tibial epiphyseal injury
  - d) Kaplan fracture dislocation
  - e) Torniquet.

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KARNALA : Oct. NOV-2012

SUBJECT : PAPER-IV - ORTHOPAEDICS RELATED TO RECENT ADVANCES AND REHABILITATION

Day : Tuesday  
Date : 18-12-2012

Time : 2.00 P.M. TO 5.00 P.M.  
Max. Marks : 100.

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Draw diagrams **WHEREVER** necessary.
- 4) Your answer will be valued as a whole.

Q.1 Discuss principles of rehabilitation of Paraplegic patient. (25)

Q.2 Describe role of Minimally Invasive Surgery (MIS) in orthopaedics. (25)

Q.3 Discuss various skin cover procedures for compound fracture tibia with skin loss. (25)

Q.4 Write short notes on any **THREE** of the following: (25)  
(maximum 8 marks for each short note and one bonus for overall presentation.)

- a) Isotope bone scan
- b) DVT prophylaxis
- c) PFN (Proximal Femoral Nailing)
- d) Neurogenic bladder
- e) Syme's amputation.

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KARNALA : JUNE 2012

SUBJECT : PAPER-I - BASIC SCIENCES RELATED TO ORTHOPAEDICS



Day : Saturday  
Date : 02-06-2012

Time : 2:00 P.M. TO 5:00 P.M.  
Max. Marks : 100.

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Draw diagrams **WHEREVER** necessary.
- 4) Your answer will be valued as a whole.

Q.1 Define shock. What are the types of shocks in severely injured patient? Discuss (25)  
clinical features and management of Hypovolaemic shock.

Q.2 Describe types of bone grafts. Describe various types of grafts used in orthopaedics. (25)  
Describe mechanism of graft integration in the body.

Q.3 Discuss the management of post polio residual paralysis of foot and ankle under the (25)  
age of 12 years.

Q.4 Write short notes on any **THREE** of the following: (25)  
(maximum 8 marks for each short note and one bonus for overall presentation.)

- a) Madura foot
- b) Distraction osteogenesis
- c) Hip impingement
- d) Stove in chest
- e) Saturday night palsy.

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**KARNALA : JUNE 2012**  
**SUBJECT : PAPER-II - ORTHOPAEDICS INCLUDING JOINT DISEASES**

Day : Monday  
Date : 04.06.2012

Time : 2:00 P.M. TO 5:00 P.M.  
Max. Marks : 100.

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Draw diagrams **WHEREVER** necessary.
- 4) Your answer will be valued as a whole.

**Q.1** Discuss aetiopathology, clinical features of Hallux valgus deformity in foot. (25)  
Describe management of Hallux valgus according to severity in young female patient.

**Q.2** Discuss aetiopathology, clinical features and management of tuberculosis of spine (25)  
at D8-9 level.

**Q.3** Describe aetiopathology, clinical features and management of osteoclastoma (Giant Cell Tumor) at lower end of radius in a young adult. (25)

**Q.4** Write short notes on any **THREE** of the following: (25)  
(maximum 8 marks for each short note and one bonus for overall presentation.)

- a) Boutennier deformity
- b) Acute respiratory distress syndrome (ARDS)
- c) Carpal instability
- d) Congenital dislocation of patella
- e) Kienbock's disease.

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**KARNALA : JUNE 2012**  
**SUBJECT : PAPER-III - FRACTURES AND JOINT INJURIES INCLUDING**  
**OPERATIVE SURGERY**



Day : Wednesday  
Date : 06.06.2012

Time : 2:00 P.M. TO 5:00 P.M.  
Max. Marks : 100.

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Draw diagrams **WHEREVER** necessary.
- 4) Your answer will be valued as a whole.

Q.1 Describe aetiopathology, clinical features and management of 3 months old (25) ununited fracture neck femur in 35 years old male patient.

Q.2 Describe applied anatomy and management of fracture scaphoid. Describe in detail (25) treatment of avascular necrosis after fracture scaphoid in adult patient.

Q.3 What is ATLS? Describe in brief about ATLS. How do you manage a (25) polytraumatised patient using ATLS principles?

Q.4 Write short notes on any **THREE** of the following: (25)  
(maximum 8 marks for each short note and one bonus for overall presentation.)

- a) Fracture calcaneum
- b) Biologic plating
- c) Hangmann's fracture
- d) Bone cement
- e) Cubitus varus.

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**KARNALA : JUNE 2012**  
**SUBJECT : PAPER-IV - ORTHOPAEDICS RELATED TO RECENT ADVANCES AND REHABILITATION**

Day : *Friday*  
Date : *08.06.2012*

Time : *2:00 P.M. TO 5:00 P.M.*  
Max. Marks : 100.

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Draw diagrams **WHEREVER** necessary.
- 4) Your answer will be valued as a whole.

**Q.1** Describe principles of tendon transfers. Describe various tendon transfers for (25) equinovarus deformity of foot.

**Q.2** Describe aetiopathology, clinical features and management of Recurrent dislocation (25) of shoulder. Discuss recent advances in management of such injuries.

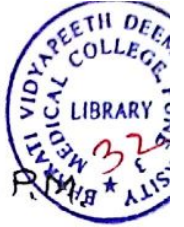
**Q.3** Describe recent advances in management of osteoporotic fractures in various bones (25) in orthopaedics.

**Q.4** Write short notes on any **THREE** of the following: (25)  
(maximum 8 marks for each short note and one bonus for overall presentation.)

- a) Unreamed nailing in fractures of long bones
- b) PET scan
- c) Ulnar claw hand
- d) Vascularised fibular graft
- e) Biomaterials.

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**KARNALA : JUNE 2011**  
**SUBJECT : PAPER-I - BASIC SCIENCES RELATED TO ORTHOPAEDICS**



Day : Saturday  
Date : 4-6-2011

Time : 2.00 P.M. To 5.00 P.M.  
Max. Marks : 100.

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Draw diagrams **WHEREVER** necessary.
- 4) Your answer will be valued as a whole.

- Q.1** Describe the course of RADIAL NERVE. Discuss the clinical features, signs and symptoms and management of radial nerve injury. (25)
- Q.2** Describe calcium metabolism. Discuss orthopaedic manifestations and treatment of hyper parathyroidism. (25)
- Q.3** Discuss anatomy of flexor tendons of index finger of hand. Describe principles of tendon surgery in various zones of hand. (25)
- Q.4** Write short notes on any **THREE** of the following: (25)  
(maximum 8 marks for each short note and one bonus for overall presentation.)
- a) Foot drop.
  - b) DVT prophylaxis in orthopaedics
  - c) Tumor markers.
  - d) Piriformis muscle.

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**KARNALA : JUNE 2011**  
**SUBJECT : PAPER-II - ORTHOPAEDICS INCLUDING JOINT DISEASES**



Day : *Monday*  
Date : *6.6.2011*

Time : *2.00 P.M. To 5.00 P.M.*  
Max. Marks : 100.

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Draw diagrams **WHEREVER** necessary.
- 4) Your answer will be valued as a whole.

- Q.1** Discuss clinical features, pathology, diagnosis and management of GIANT CELL (25)  
tumor of upper END of TIBIA.
- Q.2** Discuss management of fresh fracture of D<sub>12</sub> vertebra with paraplegia in a young (25)  
patient.
- Q.3** Discuss clinical features, aetiopathology and management of slipped upper femoral (25)  
capital epiphysis.
- Q.4** Write short notes on any **FOUR** of the following: (25)  
(maximum 6 marks for each short note and one bonus for overall presentation.)
- a) Hill sach's lesion
  - b) Cubitus varus.
  - c) Revised national tuberculosis control programme.
  - d) Costochondritis.
  - e) Dexa scan.
  - f) Artificial disc replacement.

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KARNALA : JUNE 2011  
SUBJECT : PAPER-III - FRACTURES AND JOINT INJURIES INCLUDING  
OPERATIVE SURGERY



Day : Wednesday  
Date : 08-06-2011

Time : 2.00 P.M. TO 5.00 P.M.  
Max. Marks : 100.

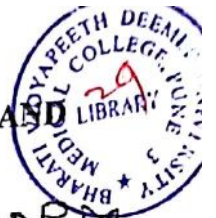
N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Draw diagrams **WHEREVER** necessary.
- 4) Your answer will be valued as a whole.

- Q.1 Discuss diagnosis, clinical features, classification and management of fracture acetabulum. (25)
- Q.2 Discuss the fracture classification, clinical features and management of head and neck of humerus. (25)
- Q.3 Discuss and classify epiphyseal injuries in children. Discuss management, clinical features of epiphyseal injuries in children. (25)
- Q.4 Write short notes on any **FOUR** of the following: (25)  
(maximum 6 marks for each short note and one bonus for overall presentation.)
- a) Fracture scaphoid.
  - b) Essex lopresity fracture.
  - c) Chance fracture.
  - d) Locking plate.
  - e) Dynamic splints.

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**KARNALA : JUNE 2011**  
**SUBJECT : PAPER-IV - ORTHOPAEDICS RELATED TO RECENT ADVANCES AND REHABILITATION**



Day : Friday  
Date : 10-06-2011

Time : 2.00 P.M. TO 5.00 P.M.  
Max. Marks : 100.

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Draw diagrams **WHEREVER** necessary.
- 4) Your answer will be valued as a whole.

**Q.1** Describe recent advances in the management of osteoporosis. Describe clinical features and surgical and medical ways to manage osteoporosis and related complications. (25)

**Q.2** Discuss plan of rehabilitation in young patient of single and bilateral lower limb amputee. (25)

**Q.3** Discuss nerve injuries and discuss management of injury to lateral popliteal (common peroneal) nerve. (25)

**Q.4** Write short notes on any **FOUR** of the following: (25)  
(maximum 6 marks for each short note and one bonus for overall presentation.)

- a) Ultrasonic therapy in orthopaedics.
- b) Functional cast bracing.
- c) Biomaterials in orthopaedics.
- d) MRI in orthopaedics.
- e) Computer navigation in orthopaedics.
- f) Bone banking.

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KARANALA : OCT/NOV-2010  
SUBJECT : PAPER - I  
(Basic Sciences Related to Orthopedics)



Day : Saturday  
Date : 04-12-2010

Time : 2:00 P.M. TO 5:00 P.M.  
Max. Marks : 100

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.

- Q.1** Describe the Course of Ulnar nerve. Describe symptomatology, differential diagnosis and management of Ulnar claw hand. [25]
- Q.2** Describe management of hypovolaemic shock after accidental bleeding. [25]
- Q.3** Write about the classification, treatment, prognosis and complication of physeal injuries. [25]
- Q.4** Write short notes on **ANY FIVE** of the following: [25]
- a) Wrist drop
  - b) Tourniquet
  - c) Hallux valgus
  - d) Intoeing gait
  - e) Loose bodies
  - f) SACH foot

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KARANALA : OCT/NOV-2010  
SUBJECT : PAPER - II  
(Orthopedics Including Operative Orthopedics)



Day : Monday  
Date : 06-12-2010

Time : 2:00 PM TO 5:00 PM.  
Max. Marks : 100

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.

- Q.1** Classify Pelvic fractures. Describe clinical features, investigations and their management. What are the complications after pelvic fractures? [25]
- Q.2** What is ATLS? Describe in brief about ATLS. How do you manage a polytraumatised patient using principles of ATLS? [25]
- Q.3** Describe applied anatomy and management of fracture scaphoid. Describe in detail the treatment of avascular necrosis after fracture scaphoid. [25]
- Q.4** Write short notes on **ANY FIVE** of the following: [25]
- a) Cubitus varus
  - b) Osgood schlatter's disease
  - c) Biologic plating
  - d) Hoffa's fracture
  - e) Kaplan's fracture dislocation
  - f) Principles of Tendon transfer

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KARANALA : OCT/NOV-2010  
SUBJECT : PAPER - III  
(Diseases of Bones and Joints)



Day : Wednesday  
Date : 08-12-2010

Time : 2:00 P.M. TO 5:00 P.M.  
Max. Marks : 100

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.

- Q.1** Describe anatomy of Flexor tendons of the hand. Describe the injuries of Flexor Tendons of hand and their management. [25]
- Q.2** Classify bone tumours. How do you manage a case of swelling of distal end of Radius in an adult? [25]
- Q.3** How do you manage a case of Acute Osteomyelitis (of any bone) in a child? [25]
- Q.4** Write short notes on **ANY FIVE** of the following: [25]
- a) Hugh Owen Thomas
  - b) Seronegative Spondylarthropathy
  - c) Volkmann's ischaemic contracture
  - d) Carpal tunnel syndrome
  - e) Chance fracture
  - f) Neuropathic bladder

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KARANALA : Oct/NOV-2010  
SUBJECT : PAPER - IV

(Orthopedics Related to Rehabilitation and Recent Advances)

Day : Friday  
Date : 10-12-2010


Time : 2:00 P.M. TO 5:00 P.M.  
Max. Marks : 100

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.

- Q.1 Describe role of minimally invasive surgery (MIS) in Orthopedics. Describe [25]  
the advantages and disadvantages of MIS.
- Q.2 Describe the management protocol for rehabilitation of a young patient [25]  
suffering from traumatic paraplegia due to Thoracolumbar injury.
- Q.3 Describe the management of polio affected equinus foot and ankle disability in [25]  
a young female of 15 years.
- Q.4 Write short notes on ANY FIVE of the following: [25]
- a) Unreamed nailing in fracture of long bones
  - b) Biomaterials
  - c) Intravenous regional anaesthesia
  - d) Bone bank
  - e) Vascularised fibular graft
  - f) Dynamic splint





**KARANALA : JUNE 2010**  
**SUBJECT : PAPER - I**  
**(Basic Sciences Related to Orthopedics)**

Day : Saturday  
Date : 05-06-2010

Time : 2:00 P.M. To 5:00 P.M.  
Max. Marks : 100

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.

- Q.1** Describe fracture healing in detail. Discuss the factors affecting fracture healing. What is the effect of piezoelectricity on fracture? [25]
- Q.2** Describe Calcium Metabolism. Write in brief about Osteodystrophy and its management. [25]
- Q.3** Describe ligamentous anatomy of the knee joint. Discuss the biomechanics of knee joint in a normal individual. [25]
- Q.4** Write short notes on **ANY FIVE** of the following: [25]
- a) Hyaline cartilage
  - b) Wallerian degeneration
  - c) Khippel feil syndrome
  - d) Joint lubrication
  - e) DMARD
  - f) PMMA

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KARANALA : JUNE 2010  
SUBJECT : PAPER – II  
(Orthopedics Including Operative Orthopedics)

Day : Monday  
Date : 07-06-2010

Time : 2.00 P.M. TO 5.00 P.M.  
Max. Marks : 100

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.

- Q.1** Describe diagnosis and classification of perthes' disease. Mention the prognostic factors and discuss in brief management of perthes' disease of hip in a 7 year old boy. [25]
- Q.2** Discuss aetiopathology of ankylosing Spondylitis and discuss the management of bilaterally ankylosed hips. [25]
- Q.3** Describe the clinical features and management of Idiopathic scoliosis. [25]
- Q.4** Write short notes on **ANY FIVE** of the following: [25]
- a) Tarsal Coalition
  - b) Keinbock's disease
  - c) Mycotic bone infection
  - d) Genu valgum
  - e) Sequestrum
  - f) Venous Thombosis

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KARANALA : JUNE 2010  
SUBJECT : PAPER – III  
(Diseases of Bones and Joints)



Day : Wednesday  
Date : 09-06-2010

Time : 2.00 P.M. To 5.00 P.M.  
Max. Marks : 100

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.

- Q.1** Discuss diagnosis, pathology and management of Osteogenic Sarcoma of the lower end of femur in a 13 year old patient. [25]
- Q.2** Describe indications of surgery in Tuberculosis hip. Describe various methods of management done for Tuberculosis hips. [25]
- Q.3** Describe management of Congenital Talipes Equino Varus (CTEV). [25]
- Q.4** Write short notes on **ANY FIVE** of the following: [25]
- a) Bone Cement
  - b) de Quervain's disease
  - c) Non Union
  - d) Myositis ossificans
  - e) Gait
  - f) Radial club hand

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**KARANALA : JUNE 2010**  
**SUBJECT : PAPER – IV**  
**(Orthopedics Related to Rehabilitation and Recent Advances)**

Day : *Friday*  
Date : *11-06-2010*

Time : *2.00 P.M. TO 5.00 P.M.*  
Max. Marks : 100

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.

- Q.1** What is the role of Magnetic resonance imaging in orthopedic diagnosis? [25]
- Q.2** Discuss the recent trends in the management of intervertebral disc prolapse. [25]
- Q.3** What is FAI? Describe the effects of FAI in a 50 year old patient. Write in short its management. [25]
- Q.4** Write short notes on **ANY FIVE** of the following: [25]
- a) FRO
  - b) Interferential therapy
  - c) Laminar air flow
  - d) Jaipur foot
  - e) Hyperbaric oxygen therapy
  - f) Bone mineral density

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**KARANALA : JUNE 2009**  
**SUBJECT : PAPER-I**  
**(Basic Sciences Related to Orthopaedics)**

Day : *Saturday*  
Date : *06-06-2009*

Time : *2:00 P.M. To 5:00 P.M.*  
Max. Marks : 100

**N.B.**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.

- Q.1** Describe the causes of median nerve in upper limb. Describe (25)  
symptomatology, differential diagnosis and management of carpal tunnel  
syndrome.
- Q.2** Describe coagulation cascade in human circulatory system. Describe (25)  
aetiopathogenesis of deep vein thrombosis. (DVT). Enumerate risk  
factors and methods of diagnosis of DVT.
- Q.3** Describe haemodynamic and metabolic response in immediate post (25)  
traumatic phase and management of hypovolemic shock.
- Q.4** Write short notes on any **THREE: (8 marks each and one bonus for (25)**  
**overall presentation):**
- a) Microbiology of Musculoskeletal infection
  - b) Wrist drop
  - c) Anterior cruciate ligament
  - d) Plaster of Paris

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**KARANALA : JUNE 2009**  
**SUBJECT : PAPER-II**  
**(Orthopaedics Including Joint Disease)**

Day : *Monday*  
Date : *08-06-2009*

Time : *2.00 P.M. To 5.00 P.M*  
Max. Marks : 100

**N.B.**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.

- Q.1 Discuss diagnosis, pathology and management of osteogenic sarcoma at lower end of Femur in a 13 years old patient. (25)
- Q.2 Describe clinical features and pathology and indications of surgery in TB knee. (25)
- Q.3 Describe anatomy, biomechanics, evaluation and treatment of lumbar canal stenosis. (25)
- Q.4 Write short notes on any **FOUR** : (6 marks each and one bonus for overall presentation): (25)
- a) Jaipur Foot
  - b) Hoffa's fracture
  - c) Epiphyseal injury
  - d) HLA antigen
  - e) Ponseti technique for management of CTEV

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**KARANALA : JUNE 2009**  
**SUBJECT : PAPER-III**  
**(Fracture Joint Injuries Including Operative Orthopaedics )**

Day : *Wednesday*  
Date : *10.06.2009*

Time : *2.00 P.M. To 5.00 P.M.* ,  
Max. Marks : 100

**N.B.**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.

- Q.1 Classify bone grafts and describe about bone bank. (25)
- Q.2 Describe mechanism of injury, classifications and management of proximal humerus fractures. (25)
- Q.3 Describe management of fresh fracture of D12 Vertebra with paraplegia in a young patient. (25)
- Q.4 Write short notes on any **FOUR**: (6 marks each and one bonus for overall presentation): (25)
- a) Thomas splint
  - b) Stove in chest
  - c) Bone transport
  - d) Lisfranc's fracture
  - e) Segond's fracture

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**KARANALA : JUNE 2009**  
**SUBJECT : PAPER-IV**  
**(Orthopaedics Related to General Surgery & Rehabilitation & Recent Advances)**

Day : Friday  
Date : 12-06-2009

Time : 2.00 P.M. To 5.00 P.M.  
Max. Marks : 100

**N.B.**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.

- Q.1 What is role of ultrasound examination in orthopaedic diagnosis? (25)
- Q.2 Describe plan of rehabilitation of a young patient suffering from traumatic quadriplegia due to cervical spine injury. (25)
- Q.3 Describe clinical features and management modalities in cerebral palsied hand in 13 yrs. young female. (25)
- Q.4 Write short notes on any **THREE**: (8marks each and one bonus for overall presentation): (25)
- a) Anatomy of rotator cuff
  - b) Proximal femoral nail (PFN)
  - c) Pedicular screw fixation
  - d) DEXA scan
  - e) Flaps in orthopaedics

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**KARANALA : JUNE 2008**  
**SUBJECT : PAPER - I : BASIC SCIENCES**

Day : *Saturday*  
Date : *07-06-2008*

Time : 2:00 P.M. TO 5:00 P.M.  
Max. Marks : 100

**N.B.**

- 1) All questions are **COMPULSORY**.
- 2) All questions carry **EQUAL** marks.
- 3) Draw neat diagrams wherever necessary.

Q.1 Describe fracture healing in detail. Discuss the factors affecting fracture healing. [25]

Q.2 Describe the ligamentous anatomy of the knee joint in detail. Discuss the Biomechanics of a normal knee joint. [25]

Q.3 Discuss Calcium metabolism in detail. Write in brief about Osteodystrophy and its management. [25]

Q.4 Write short notes on **(ANY FIVE)** [25]

- a) Hyaline Cartilage
- b) Wallerian degeneration
- c) Klippel feil anomaly
- d) Joint lubrication
- e) DMARD
- f) Bone Cement

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KARANALA : JUNE 2008

SUBJECT : PAPER - II : ORTHOPAEDICS INCLUDING JOINT DISEASES

Day : Monday  
Date : 09-06-2008

Time : 2:00 P.M. TO 5:00 P.M.  
Max. Marks : 100

N.B.

- 1) All questions are **COMPULSORY**.
- 2) All questions carry **EQUAL** marks.
- 3) Draw neat diagrams wherever necessary.

- Q.1 Discuss the differential diagnosis of limp in a child and discuss the management of any one of the conditions. [25]
- Q.2 What is Spondylolishesis? Discuss the management of Spondylolisthesis. [25]
- Q.3 Discuss the Orthopedic management of a spastic child. [25]
- Q.4 Write short notes on (ANY FIVE) [25]
- a) Chondroblastoma
  - b) High Tibial Ostcotomy
  - c) Renal Rickets
  - d) Achondroplasia
  - e) SACH Foot
  - f) Diasthomatomyelia

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**KARANALA : JUNE 2008**  
**SUBJECT : PAPER - III : (FRACTURE AND JOINT INJURIES INCLUDING**  
**OPERATING SURGERY)**

Day : *Wednesday*  
Date : *11-06-2008*

Time : *2:00 P.M. TO 5:00 P.M.*  
Max. Marks : 100

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**N.B.**

- 1) All questions are **COMPULSORY**.
  - 2) All questions carry **EQUAL** marks.
  - 3) Draw neat diagrams wherever necessary.
- 

Q.1 Classify Acetabular fractures and discuss the algorithm of management. [25]

Q.2 Discuss the management of fracture of head and neck of humerus. [25]

Q.3 Describe applied anatomy and management of fracture of scaphoid. [25]

Q.4 Write short notes on **(ANY FIVE)** [25]

- a) Lag Screw
- b) Locking Compression plate
- c) Olive wire in Ilizarov fixator
- d) Gartland's classification in Supra condylar fractures of humerus
- e) Tendo achillis rupture
- f) Fall from height

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**KARANALA : JUNE 2008**  
**SUBJECT : PAPER - IV: (ORTHOPAEDICS RELATED TO GENERAL SURGERY**  
**AND REHABILITATION)**

Day : *Friday*  
Date : *13-06-2008*

Time : *2:00 P.M. TO 5:00 P.M.*  
Max. Marks : 100

**N.B.**

- 1) All questions are **COMPULSORY**.
- 2) All questions carry **EQUAL** marks.
- 3) Draw neat diagrams wherever necessary.

Q.1 Define Gait. How do you analyse gait and discuss it's relevance in clinical practice? [25]

Q.2 What are the recent advances in fracture fixation? How do you decide about the choice of an implant in an elderly patient? [25]

Q.3 Describe role of different imaging modalities used in orthopaedics. [25]

Q.4 Write short notes on (ANY FIVE) [25]

- a) Laminar air flow
- b) Ligamentotaxis
- c) Floor Reaction Orthosis
- d) Hyperbaric Oxygen therapy
- e) Rehabilitation team
- f) Disc Replacement

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**KARANALA : DECEMBER 2007**  
**SUBJECT : BASIC SCIENCES PAPER-I**



G. J. Ho

Day : *Tuesday*  
Date : *04-12-2007*

Time : 2:00 P.M. TO 5:00 P.M.,  
Max. Marks : 100.

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**N.B.:**

- 1) All questions are **COMPULSORY**.
  - 2) All questions carry **EQUAL** marks.
- 

- Q.1** Describe role of Vit D in bone metabolism and describe diagnosis and management (25)  
of any one clinical condition caused by Vit D deficiency.
- Q.2** Describe the indications and relative merits of MRI and C.T. scan in orthopaedics. (25)
- Q.3** Describe structure of Intervertebral disc. Discuss the role of Intervertebral disc in (25)  
activities of daily living.
- Q.4** Write short notes on : (25)
- a) Cast bracing
  - b) de Quervain's disease
  - c) Tear drop in orthopaedics
  - d) Arches of foot.

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**KARANALA : DECEMBER 2007**  
**SUBJECT : ORTHOPAEDICS INCLUDING JOINT DISEASES PAPER-II**

Day : *Wednesday*  
Date : *05-12-2007*

Time : *2:00 P.M. TO 5:00 P.M.*  
Max. Marks : 100.

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**N.B.:**

- 1) All questions are **COMPULSORY**.
  - 2) All questions carry **EQUAL** marks.
- 

**Q.1** Discuss the aetiology and various surgical procedures available for recurrent (25)  
dislocation of shoulder.

**Q.2** Discuss the management of pott's paraplegia. (25)

**Q.3** Describe aetiology, clinical features, diagnostic investigations and management of (25)  
perthes' disease.

**Q.4** Write short notes on : (25)

- a) Ganglion
- b) Use of Ultrasonography in orthopaedics
- c) Claudication
- d) Keinbock's disease.

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**KARANALA : DECEMBER 2007**  
**SUBJECT : FRACTURE AND JOINT INJURIES INCLUDING**  
**OPERATING SURGERY**  
**PAPER-III**



Day : *Thursday*  
Date : *06-12-2007*

Time : *2:00 P.M. TO 5:00 P.M.*  
Max. Marks : 100.

**N.B.:**

- 3) All questions are **COMPULSORY**.
- 4) All questions carry **EQUAL** marks.

**Q.1** Discuss fractures of pelvis with their mechanisms of injury. Classify fractures of pelvis and give management of fracture of pelvis. (25)

**Q.2** Describe mechanism, classification, clinical features and management of supracondylar fracture of humerus in a 12 year old child. (25)

**Q.3** Discuss the principles of management of Brachial plexus injury. (25)

**Q.4** Write short notes on : (25)

- a) Fractures of scaphoid
- b) Traction in orthopaedics
- c) Mechanisms of fractures of cervical vertebrae
- d) Locking compression plate.

**KARANALA : DECEMBER 2007**  
**SUBJECT : ORTHOPAEDICS RELATED TO GENERAL**  
**SURGERY AND REHABILITATION**  
**PAPER-IV**



Day : Friday  
Date : 07-12-2007

Time : 2:00 P.M. TO 5:00 P.M.  
Max. Marks : 100.

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) All questions carry **EQUAL** marks.

- Q.1 Discuss skin cover in open musculoskeletal injuries. (25)
- Q.2 Describe the aetiology of Deep vein thrombosis. Discuss the role of thromboprophylaxis following orthopaedic surgery. (25)
- Q.3 Describe different orthopaedic conditions leading to surgical complications. (25)
- Q.4 Write short notes on : (25)
- a) Mega prosthesis
  - b) Phantom limb
  - c) Paradoxical breathing
  - d) Anti gas gangrene serum.



**KARANALA : JUNE 2007**  
**SUBJECT : BASIC SCIENCES PAPER - I**

Day : Tuesday  
Date : 12/06/2007

Time : 2:00 p.m. to 5:00 p.m.  
Max. Marks : 100

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**N.B.**

- 1) All questions are **COMPULSORY**.
  - 2) All questions carry **EQUAL** marks.
  - 3)
- 

- Q.1** Describe the course of Ulnar nerve. Describe the symptomatology, differential diagnosis and management of Ulnar Claw hand. (25)
- Q.2** Describe Calcium metabolism and discuss orthopaedic manifestations of hyperparathyroidism. (25)
- Q.3** Describe anatomy of flexor tendon of an index finger. Describe principles of tendon surgery in various zones of hand. (25)
- Q.4** Write short notes on (ANY TWO): (25)
- a) Nuclear bone scan
  - b) Foot drop
  - c) Tourniquet in orthopaedics

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**KARANALA : JUNE 2007**  
**SUBJECT : ORTHOPAEDICS INCLUDING JOINT DISEASES PAPER - II**

Day : Wednesday  
Date : 13/06/2007

Time : 2:00 p.m. to 5:00 p.m.  
Max. Marks : 100

**N.B.**

- 1) All questions are **COMPULSORY**.
- 2) All questions carry **EQUAL** marks.
- 3)

- Q.1 Describe aetiology, pathology and treatment of Avascular necrosis of head of femur. (25)
- Q.2 Classify bone tumours. Discuss the technique of limb conservation in the management of malignant bone tumours (25)
- Q.3 Classify spondylolisthesis and discuss the pathological changes in spondylolisthesis of various types. Outline their management (25)
- Q.4 Write short notes on: (25)
- a) Boutiniere finger
  - b) Renal Rickets

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**KARANALA : JUNE : 2007**  
**PAPER – III (FRACTURE AND JOINT INJURIES INCLUDING**  
**OPERATING SURGERY)**



Day : Thursday  
Date : 14/06/2007

Time : 2.00 pm to 5.00 pm  
Max. Marks : 100

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- Q.1 Describe fracture healing. (25)
- Q.2 Describe the diagnostic criteria / management of a patient of fall from a height. (25)
- Q.3 Classify fractures of upper end of tibia and describe the management of fractures of upper end of tibia. (25)
- Q.4 Write short notes on (25)  
a) Non union of scaphoid bone.  
b) Volkmann's ischaemic contracture.

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**KARANALA : JUNE : 2007**  
**PAPER – IV (ORTHOPAEDICS RELATED TO GENERAL SURGERY AND REHABILITATION)**

Day : Friday  
Date : 15/06/2007

Time : 2.00 pm to 5.00 pm  
Max. Marks : 100

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Q.1 Describe the clinical features and management of acute dilatation of stomach. (25)

Q.2 Discuss the classification of fractures of pelvis and give in brief the management of rupture urethra. (25)

Q.3 Describe the principles of amputation and give in brief the planning of rehabilitation of amputee. (25)

Q.4 Write short notes on (25)  
a) SACH foot.  
b) Minimally invasive surgery

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**KARNATA : AUGUST 2006**  
**SUBJECT : PAPER-I**  
**(BASIC SCIENCES RELATED TO ORTHOPAEDICS)**



Day : Tuesday  
Date : 01/08/2006

Time : 2.00 P.M. TO 5.00 P.M.  
Max. Marks : 100


**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Draw diagrams wherever necessary.
- 4) Your answer will be valued as a whole.

- Q.1 Describe blood supply of head and neck of femur from birth to adult and discuss its role in fracture management. (25)
- Q.2 Discuss thromboprophylaxis in orthopaedic practice. (25)
- Q.3 What is non union of a fracture? Write aetiology and management of various types of non unions. (25)
- Q.4 Write short notes on (Any Three) (25)
- a) Lumbar disc
  - b) Bone mineral density
  - c) Rotator cuff
  - d) Knee stability

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**KARNATAKA . AUGUST 2006**  
**SUBJECT : PAPER-II**  
**(ORTHOPAEDICS INCLUDING OPERATIVE ORTHOPAEDICS)**

Day : Wednesday  
Date : 02/08/2006

Time : 2.00 P.M. TO 5.00 P.M.  
Max. Marks : 100

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Draw diagrams wherever necessary.
- 4) Your answer will be valued as a whole.

- Q.1 Describe pathogenesis, complications and management of tuberculosis of spine at the level of D<sub>10</sub> - D<sub>11</sub>. (25)
- Q.2 Describe aetiology, clinical features and management of untreated DDH at the age of 8 years. (25)
- Q.3 Discuss the clinical features, investigations and management of a case of osteosarcoma of lower end of femur. (25)
- Q.4 Write short notes on (Any Two) (25)
- a) Radiological features of rickets
  - b) Loose bodies in the joints
  - c) Flat foot

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KARNATA : AUGUST 2006  
SUBJECT : PAPER-III  
(DISEASES OF BONES AND JOINTS)



Day : Thursday  
Date : 03/08/2006

Time : 2.00 P.M. TO 5.00 P.M.  
Max. Marks : 100

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Draw diagrams wherever necessary.
- 4) Your answer will be valued as a whole.

- Q.1 Describe the classification of ankle injuries. Describe the clinical features and management of different injuries of ankle. (25)
- Q.2 Describe surgical anatomy of shoulder joint. Discuss the management of recurrent dislocation of shoulder. (25)
- Q.3 Describe the mechanisms of different types of elbow injuries. Give the management protocol in a case of supracondylar fracture of humerus in 12 years old child. (25)
- Q.4 Write short notes on (Any Two) (25)
- a) Functional cast bracing
  - b) Myositis ossificans
  - c) Pathological fractures



**KARNATAKA : AUGUST 2006**  
**SUBJECT : PAPER-IV**  
**(ORTHOPAEDICS RELATED TO REHABILITATION, RECENT ADVANCES)**

Day : Friday  
Date : 04/08/2006

Time : 2.00 P.M. TO 5.00 P.M.  
Max. Marks : 100

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Draw diagrams wherever necessary.
- 4) Your answer will be valued as a whole.

- Q.1 Describe the protocol of management of a case of post traumatic gangrene of right foot in an adult. (25)
- Q.2 Discuss the role of physiotherapy in post traumatic knee stiffness. (25)
- Q.3 Describe the disabilities of hand due to cerebral palsy. Discuss the different surgical procedures in such a hand. (25)
- Q.4 Write short notes on (Any Two) (25)
- a) Metals in orthopaedics
  - b) C.P.M. (Continuous passive motion)
  - c) Mosaicplasty

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KARANALA: SUMMER - 2016  
SUBJECT : PAPER - I: BASIC SCIENCES AS APPLIED TO ORTHOPAEDICS



Day : Wednesday  
Date : 01-06-2016

Time : 2-00 P.M. TO 5-00 P.M.  
Max. Marks : 100

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat diagrams **WHEREVER** necessary.
- 4) Your answer will be valued as a whole.

- Q.1 Discuss surgical anatomy of Shoulder Joint. Describe Deltopectoral approach to Shoulder. [15]
- Q.2 Enumerate complications of fractures. Discuss aetiopathogenesis and management of Acute Compartment Syndrome. [15]
- Q.3 Write **ANY SEVEN** of the following: [70]
- i) Discuss Bone Scan.
  - ii) Describe Biomechanics of hip joint in relation to THR.
  - iii) Discuss medical and surgical management of Osteoporosis.
  - iv) Discuss management of compound fractures of tibia.
  - v) Describe composition of normal synovial fluid and changes seen in various pathologies.
  - vi) Describe indications, precautions and complications of Blood transfusion.
  - vii) Describe biomechanical principals of DHS. Describe steps of DHS surgery in details.
  - viii) Describe blood supply of head of femur and it's clinical relevance.

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**KARANALA: SUMMER – 2016**  
**SUBJECT : PAPER – II: BONE & JOINT INJURIES**



Day : **Friday**  
Date : **03-06-2016**

Time : **2-00 P.M. To 5-00 P.M.**  
Max. Marks : **100**

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat diagrams **WHEREVER** necessary.
- 4) Your answer will be valued as a whole.

**Q.1** Classify Thoraco lumbar spinal injuries. Outline the management of burst fracture of L<sub>1</sub>. **[15]**

**Q.2** Describe applied anatomy and management of scapoid fracture. Describe in detail management of non union of Scapoid. **[15]**

**Q.3** Write **ANY SEVEN** of the following: **[70]**

- i) Describe flaps in compound injuries of lower limbs.
- ii) Write about Robert Jones contribution in Orthopaedics.
- iii) Classify periprosthetic fracture following THR. Write about its management.
- iv) Classify upper end of Tibia fracture and discuss its management.
- v) Myositis Ossificans
- vi) Discuss management of Recurrent dislocation of shoulder joint.
- vii) Discuss management of gunstock deformity in 10 years old child.
- viii) Uni Condylar Prosthesis.

**KARANALA: SUMMER – 2016**  
**SUBJECT : PAPER – III: BONE & JOINT DISEASES**



Day : **Monday**  
Date : **06-06-2016**

Time : **2-00 P.M. To 5-00 P.M.**  
Max. Marks : **100**

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat diagrams **WHEREVER** necessary.
- 4) Your answer will be valued as a whole.

- Q.1** Classify Scoliosis. Discuss aetiopathogenesis, clinical features and [15]  
management of Idiopathic Adolescent Scoliosis.
- Q.2** Discuss differential diagnosis of a 12 yrs old boy presenting with pain and [15]  
swelling over lower thigh.
- Q.3** Write **ANY SEVEN** of the following: [70]
- i) Thoracic Outlet Syndrome.
  - ii) Blount's disease.
  - iii) Discuss purine metabolism and management of Gout.
  - iv) Describe aetiopathogenesis and management of Sprengel shoulder.
  - v) Discuss management of TB Knee.
  - vi) Describe Head at Risk signs in Perthe's disease.
  - vii) Dupuytren's Contracture.
  - viii) Describe aetiopathogenesis, clinical features and management of Ankylosing spondylitis.

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**KARANALA: SUMMER – 2016**  
**SUBJECT : PAPER – IV: RECENT ADVANCES & ALLIED SUBJECTS**



Day : *Wednesday*  
Date : *08-06-2016*

Time : *2.00 P.M. TO 5.00 P.M.*  
Max. Marks : 100

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat diagrams **WHEREVER** necessary.
- 4) Your answer will be valued as a whole.

- Q.1** Describe deformities of hand in cerebral palsy and various surgical procedures for their corrections. [15]
- Q.2** Describe types of femoro acetabular impingement and management. [15]
- Q.3** Write **ANY SEVEN** of the following: [70]
- i) Enumerate causes of claudication and management of Lumbar canal stenosis.
  - ii) Describe management of severe degree Hallux valgus in 15 yr female patient.
  - iii) Discuss clinical application of Ligamentotaxis in Orthopaedics.
  - iv) Role of Botox injection in cerebral palsy.
  - v) Anatomy of Arches of foot and management of flat foot.
  - vi) Discuss the DVT prophylaxis.
  - vii) Discuss about management MDR tuberculosis in spinal infection.
  - viii) Laser in Orthopaedic.

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**KARNALA : WINTER - 2015**  
**SUBJECT : PAPER- I : BASIC SCIENCES AS APPLIED TO ORTHOPAEDICS**

Day : Wednesday  
Date : 02/12/2015

Time : 2.00 P.M. TO 5.00 P.M.  
Max. Marks : 100

**N. B.:**

- 1) All questions are **COMPULSORY**.
- 2) Draw neat diagrams **WHEREVER** necessary.
- 3) Figures to the **RIGHT** indicate full marks.
- 4) Your answer will be valued as a whole.

**Q.1** Describe the Embryological development of Vertebra and its clinical significance (15) and write a note on management of Scheurmann's disease.

**Q.2** Describe bone structure. Discuss bone modeling and remodeling. Discuss (15) pathophysiology in regulation of bone turnover and mineral exchange.

**Q.3** Attempt any **SEVEN** of the following: (70)

- a) Klippel- Feil Syndrome
- b) Discuss the aetiopathology and management of Pseudeck's Osteodystrophy.
- c) Describe aetiopathology and management of Tetanus.
- d) Describe the importance of Gait analysis in orthopaedics.
- e) Discuss Bone Graft in Orthopaedics.
- f) Describe Biomechanics of Knee joint in relation to TKR.
- g) Discuss about management of Radial club hand.
- h) Discuss clinical features and management of Vitamin D resistant Rickets.

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**KARNALA : WINTER - 2015**  
**SUBJECT : PAPER- II : BONE AND JOINT INJURIES**

Day : Friday  
Date : 04/12/2015

Time : 2.00 P.M. TO 5.00 P.M.  
Max. Marks : 100

**N. B.:**

- 1) All questions are **COMPULSORY**.
- 2) Draw neat diagrams **WHEREVER** necessary.
- 3) Figures to the **RIGHT** indicate full marks.
- 4) Your answer will be valued as a whole.

- Q.1** Classify Carpal Instability and discuss about its management. (15)
- Q.2** Classify Thoraco Lumbar spinal injuries, outline the management of burst fracture of L1. (15)
- Q.3** Attempt any **SEVEN** of the following: (70)
- a) Discuss clinical features and management of stove in chest.
  - b) Discuss management of Gunstock deformity in 10 years old child.
  - c) Lisfrance's fracture – Classify and discuss its management.
  - d) Discuss about management of Flexor Tendon injuries of the hand.
  - e) Describe surgical anatomy of Rotator Cuff and management of Rotator Cuff tear.
  - f) Discuss surgical anatomy of ACL and management of ACL injuries.
  - g) Describe surgical exposure and steps of Total Hip Replacement.
  - h) Describe classification and management of Glenoid fractures.

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**KARNALA : WINTER - 2015**  
**SUBJECT : PAPER- III : BONE AND JOINT DISEASES**

Day : Monday  
Date : 07/12/2015


Time : 2.00 P.M. TO 5.00 P.M.  
Max. Marks : 100

**N. B.:**

- 1) All questions are **COMPULSORY**.
- 2) Draw neat diagrams **WHEREVER** necessary.
- 3) Figures to the **RIGHT** indicate full marks.
- 4) Your answer will be valued as a whole.

- Q.1** Classify Cerebral palsy and discuss about aetiology and management of Diplegic cerebral palsy. (15)
- Q.2** Describe classification and staging of bone tumours. Discuss principles of bone biopsy. (15)
- Q.3** Attempt any **SEVEN** of the following: (70)
- a) Principles of Bone transport.
  - b) Principles of Functional cast bracing.
  - c) Describe Deformities and management of Iliotibial band contracture.
  - d) Fat embolism and treatment protocols.
  - e) Describe aetiopathogenesis and management of Femoro Acetabular impingement (FAI)
  - f) What are various deformities seen in Rheumatoid hand? Discuss management of any one of them.
  - g) Enumerate various Entrapment neuropathies. Describe aetiopathogenesis and management of Carpal tunnel syndrome.
  - h) Describe aetiopathogenesis, clinical features and management of Radial Club hand.

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**KARNALA : WINTER - 2015**

**SUBJECT : PAPER- IV : RECENT ADVANCES AND ALLIED SUBJECTS**

Day : Wednesday  
Date : 09/12/2015

Time : 2.00 P.M. TO 5.00 P.M.  
Max. Marks : 100

**N. B.:**

- 1) All questions are **COMPULSORY**.
- 2) Draw neat diagrams **WHEREVER** necessary.
- 3) Figures to the **RIGHT** indicate full marks.
- 4) Your answer will be valued as a whole.

**Q.1** Discuss about clinical features, management of Multiple myeloma including recent advances. (15)

**Q.2** Cartilage graft in osteochondral defects. (15)

**Q.3** Attempt any **SEVEN** of the following: (70)

- a) Ceramics in orthopaedics.
- b) Floor reaction Orthosis – describe its parts and mechanism of function.
- c) Enumerate bio-degradable implants and discuss about advantages and disadvantages.
- d) Bone bank.
- e) Discuss different types of biopsy in orthopaedics.
- f) Molecular biology techniques for diagnosis of orthopaedic infections.
- g) Short wave diathermy and interferential therapy.
- h) Computer Navigation surgeries in Orthopaedics.

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