

51313

Third B.P.Th. (2012) Examination, Summer 2018
FUNCTIONAL DIAGNOSIS AND PHYSIOTHERAPEUTICS SKILL

Total Duration : Section A + B = 3 Hours

Total Marks : 80

SECTION – A and SECTION – B

Instructions :

- 1) Use **blue/black** ball point pen only.
- 2) **Do not** write anything on the **blank portion of the question paper**. If written anything, such type of act will be considered as an attempt to resort to unfair means.
- 3) **All** questions are **compulsory**.
- 4) The number to the **right** indicates **full** marks.
- 5) Draw diagrams **wherever** necessary.
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- 7) Use a common answerbook for **all** Sections.

SECTION – A SAQ (50 Marks)

1. Short answer question (**any five** out of six) : (5×3=15)
 - a) Three principles of Muscle Energy technique.
 - b) Three postural reflexes.
 - c) Three abnormal breathing patterns.
 - d) Three causes of Knee instability.
 - e) Abnormalities of insertional activities.
 - f) Three measures of pain in children.

2. Short answer question (**any five** out of six) : (5×7=35)
 - a) Gait Deviations due to musculoskeletal dysfunction.
 - b) PNF principles and technique.
 - c) Techniques of soft tissue mobilization.
 - d) Electrodiagnostic test.
 - e) Neurodevelopmental Technique.
 - f) Assessment of muscle strength and endurance.

P.T.O.



SECTION – B LAQ (30 Marks)

3. Long answer question (**any one** out of two) : (1×15=15)
- a) 30 yrs old designer complains of morning stiffness and inability to bend spine to pick up. He feels her neck has come too forward. He is diagnosed as Ankylosing spondylitis and is on disease modifying drugs since one year. His pain and discomfort in low back and SI joints is 2/10 on VAS at rest. Discuss Assessment and write functional diagnosis in ICF frame work.
- b) 55 yrs old housewife , known case of hypertension and diabetis since 4 yrs. She complains of sudden loss of conciousness and weakness of left sided body with deviation of angle of mouth since a month time. Her speech is slurred and she undergoes episodes of crying. She is dependent on her daughter in law for activities of self care. She can sit independently however to walk she needs assistance. Discuss impairments and activity/participation along with contextual factors using ICF framework.
4. Long answer question (**any one** out of two) : (1×15=15)
- a) 12 yrs old school going Reena complains of sudden onset breathlessness in winter and rainy season. She has reduced participating in sports and other events of school. Her PEFr is 100. She occasionally takes bronchodilators thru spacer. Her mother is worried due to absentism and poor performance at school. Discuss assessment and impairments along with functioning and disability in ICF framework.
- b) 20 yrs old Shivram is operated for left pneumonectomy 3 days ago. He has ICD which drains around 200 ml of fluid. He complains of pain on breathing and coughing. He has disturbed sleep. Also he is producing copious sputum. He refuses to walk because of drains and performs activities of self care in bed. Write assessment and Functional diagnosis in ICF framework.
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Third B.P.Th. (Revised) Examination, Summer 2018
PHYSICAL DIAGNOSIS AND MANIPULATIVE SKILLS

Total Duration : Section A+B = 3 Hours

Total Marks : 80

SECTION – A & SECTION – B

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SECTION – "A" SAQ (50 Marks)

1. Short answer question (**any five** out of six) : **(5×3=15)**
 - a) Glasgow Coma Scale.
 - b) Describe Radiographic findings seen in chronic bronchitis.
 - c) Define End feel. Enumerate different types of normal end feels.
 - d) Enumerate three tests for Thoracic outlet syndrome.
 - e) H reflex.
 - f) Trick movements.

2. Short answer question (**any five** out of six) : **(5×7=35)**
 - a) Ennumerate principles of Rood's approach and describe any two facilitatory and inhibitory techniques.
 - b) Discuss Mckenzie classification and describe principles of Mckenzie treatment approach.
 - c) What is neuro dynamic testing ? Describe it for upper limb and lower limb.
 - d) Explain assessment of breathlessness and explain scale used for rate of perceived exertion.
 - e) Describe pathophysiology of Obesity and explain assessment of obesity.
 - f) Describe any seven primitive reflex reactions.

P.T.O.



SECTION – “B” LAQ (30 Marks)

3. Long answer question (**any one** out of two) : (1×15=15)
- a) A 48 year old female clerk by occupation sustained colle's fracture of right side one month back which was conservatively managed, now slab was removed 2 days back. Describe assessment and discuss impairments, activity limitations, participations restrictions and contextual factors with proper clinical reasoning. (8+7)
- b) A 35 year old software engineer comes with complaint of localised pain in lower cervical spine and reduced cervical range of motion in early morning since last 1 month. He has a two year old child and lives in a joint family. Describe assessment and discuss impairments, activity limitations, participation restrictions and contextual factors with proper clinical reasoning. (8+7)
4. Long answer question (**any one** out of two) : (1×15=15)
- a) A 52 year old male businessman has undergone Coronary Artery Bypass Grafting for triple vessel disease a day back. He is having history of hypertension since 4 years and smoking 20 cigarettes daily from past 10 years. Describe assessment and discuss impairments, activity limitations, participation restrictions and contextual factors with proper clinical reasoning. (8+7)
- b) A 45 year old male, teacher by occupation, hypertensive and right hand dominant, is suffering from right sided hemiplegia since last 15 days. He is the only earning member, having wife and four children. Describe assessment and discuss impairments, activity limitations, participation restrictions and contextual factors with proper clinical reasoning. (8+7)
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**Third B.P.Th. (Revised) Examination, Summer 2017
PHYSICAL DIAGNOSIS AND MANIPULATIVE SKILLS**

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**SECTION – A
(SAQ)**

(50 Marks)

1. Short answer question (**any five** out of six) : **(5×3=15)**
 - a) Waist-hip ratio in obesity assessment.
 - b) Enumerate any three principles of Neuro Developmental Technique.
 - c) Enumerate any three contraindications for neural tissue tension test.
 - d) What is electric silence in EMG ? State its importance.
 - e) Enumerate the difference between neurogenic and myogenic lesion pertaining to amplitude, duration and recruitment pattern of Motor unit action potential.
 - f) Define irritability. State its two valuable uses in assessment.

2. Short answer question (**any five** out of six) : **(5×7=35)**
 - a) Describe the grades of Maitland's mobilisation method and state three contraindications for it.
 - b) Describe the importance of assessing quality of life during examination of patient. Enumerate four scales for the same.
 - c) State the differences between 'F' wave and 'H' reflex.
 - d) Describe the features of normal strength duration curve.
 - e) Discuss indications and contraindications to exercise tolerance testing.
 - f) Discuss the principles of Proprioceptive Neuromuscular Technique in brief.

P.T.O.



SECTION – B
(LAQ)

(30 Marks)

3. Long answer question (**any one** out of two) :

(1×15=15)

- a) A 60 year old, hypertensive and diabetic male, has Parkinson's disease since past two years. He lives with his wife on 1st floor of a building. His condition has deteriorated and he is finding it difficult to walk without assistance. He also has difficulty in all A.D.L.

Enumerate the impairments with clinical reasoning.

7

Describe the activity limitation and participation restriction.

5

Enumerate the contextual factors.

3

- b) A 40 year old handloom worker is diagnosed to have peri-arthritis of right shoulder 2 months back, pain at rest is 6 on 10 point scale and on movement is 8/10. He has difficulty in wearing his shirt and riding his bicycle.

Give impairments with clinical reasoning.

7

Discuss activity limitation and participation restriction.

5

Enumerate the contextual factors.

3

4. Long answer question (**any one** out of two) :

(1×15=15)

- a) A 50 year old male, cotton mill worker has dyspnoea on doing accustomed activities and occasional day cough. He is a chronic smoker and has been diagnosed as having Emphysema. He has four school and college going children. His six-minute distance is 200 meters with 2 pauses.

Give impairments with clinical reasoning.

Discuss activity limitation and participation restriction.

Enumerate the contextual factors.

- b) A 45 year old labourer, a chronic beedi smoker since past 30 years has been diagnosed to have Burger's disease. His chief complaints are pain and occasional swelling in the feet and legs during work and walking. His claudication time is 15 minutes. His wife works as a house-maid and they have 2 children.

Give impairments with clinical reasoning.

7

Discuss the activity limitations and participation restriction.

5

Enumerate the contextual factors.

3



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**Third B.P.T.H. (Revised) Examination, Summer 2016
PHYSICAL DIAGNOSIS AND MANIPULATIVE SKILLS**

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Total Marks : 80

SECTION – A & SECTION – B

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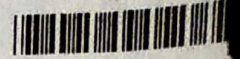
SECTION – A

(50 Marks)

SAQ

1. Short answer question (**any five** out of six) : **(5×3=15)**
 - a) Define end feel.
 - b) Postural syndrome.
 - c) Grades of dyspnoea.
 - d) ATNR and STNR.
 - e) Special test for congenital dislocation of hip (CDH).
 - f) F wave.
2. Short answer question (**any five** out of six) : **(5×7=35)**
 - a) Any 5 differences in the maitland mobilisation and kaltenborn mobilization.
 - b) Normal and abnormal electromyographic study.
 - c) Equilibrium and non-equilibrium test for co-ordination.
 - d) Any 3 submaximal exercise tolerance tests protocols.
 - e) Write a note on differentiation between including tests for neurological and vascular claudication.
 - f) Explain use of faradic galvanic test and strength duration curve with examples.

P.T.O.



SECTION – B

(30 Marks)

LAQ

3. Long answer question (**any one** out of two) :

(1×15=15)

- a) A 65 year old male managing director of cotton industry suffered from myocardial infarction with triple vessel block. He underwent angioplasty for the same 6 weeks back and recovering from the episode gradually. He is also suffering from claudication in calf muscles since 1 year due to varicose veins in lower limbs. He bears a high socioeconomic status and lives in family of 6 members out of which four are working. He is undergoing a progressive physical therapy program. He is known case of diabetes since 16 years and BMI index is 38. Describe ICF with clinical reasoning.
- b) A 30 year old male patient suffering from recurrent episodes of persistent productive purulent cough and frequent chest infections since 15 years. Recently he was admitted with new hemoptysis, shortness of breath, and borderline lung function with fever which was managed with antibiotics and anti-inflammatory medications. Patient was discharged 1 week back with instructions for positions of postural drainage daily with continuation of routine medication. He is one of earning member among 3 and living in the family of 6 members. He is unmarried and has his own internet cafe. Write down probable differential diagnosis with X-ray findings and ICF with clinical reasoning.

4. Long answer question (**any one** out of two) :

(1×15=15)

- a) A 65 year old farmer underwent Proximal Femur Nailing surgery 1 week back for inter-trochantric fracture of femur. He is the one of the earning member among 3 and living in family of 6. He is diabetic and tobacco chewer. Write ICF with clinical reasoning.
- b) A 65 year old male patient came with chief complaints of difficulty in walking with imbalance, and difficulty in initiation of first footsteps, tremors, and stiffness in movements. He has been diagnosed as Parkinsonism 6 months back and he is on medication for the same. Patient is still working as CEO of a reputed company and wants to resume work. Write ICF with clinical reasoning.

Third B.P.Th. 2012, Winter 2015

Functional Diagnosis and Physiotherapeutics Skill

Total Duration : Section A + B = 3 Hours

Total Marks : 80

Section - A & Section - B

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Section "A" SAQ (50 Marks)**(5x3=15)**

1. Short answer question (**any five** out of six) :
 - a) Define end feel with suitable examples.
 - b) Enlist Mckenzie syndromes. Explain any one.
 - c) Describe grades of Maitaland mobilization.
 - d) Explain characteristics of normal Strength Duration Curve.
 - e) Describe any two Righting reactions.
 - f) Ankle Brachial index.

(5x7=35)

2. Short answer question (**any five** out of six) :
 - a) Slump test.
 - b) Define pain and explain five pain scales.
 - c) Six minute walk test.
 - d) Assessment of balance.
 - e) Describe normal Arterial Blood Gas study and discuss three variations.
 - f) Describe characteristics of normal motor unit action potential and change in neurogenic lesion.

P.T.O.



Section "B" LAQ (30 Marks)

3. Long answer question (**any one** out of two) :

(1x15=15)

a) A 52 yrs. old teacher presents with right shoulder pain and restriction of range of motion since three months. She has difficulty in combing and in reaching behind her back. She is diabetic since past five years. Discuss

i) Evaluation

5

ii) Functional diagnosis

5

iii) Clinical reasoning.

5

b) A 50 yrs. old, female bank worker complains of low back pain since 2 years. Pain increases by evening and on doing household activity and occasionally radiates to bilateral buttock, which is relieved in lying down. Discuss

i) Evaluation

ii) Functional diagnosis

iii) Clinical reasoning.

5

5

4. Long answer question (**any one** out of two) :

(1x15=15)

a) 59 yrs. old driver suffering from dry cough and breathlessness since few days. He has experienced similar episode since last two years especially during change of season. His wife and five children live in village and he is the only earning member. Discuss

a) Evaluation

5

b) Functional diagnosis

5

c) Clinical reasoning.

5

b) A 4 yrs. old female child is yet to sit her on her own. On assesment there is hypotonia of the trunk and reduced proprioception. Discuss

a) Evaluation

5

b) Functional diagnosis

5

c) Clinical reasoning.

5



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Third B.P.Th. (Old) Examination, Summer 2013
ELECTRO DIAGNOSIS/FUNCTIONAL ANALYSIS AND CLINICAL
REASONING

Total Duration: Section A + B + C = 3 Hours

Section B & C Marks: 60

SECTION – B & SECTION – C

Instructions: 1) *All questions are compulsory.*

2) *The number to the **right** indicates **full** marks.*

3) *Draw diagrams **wherever** necessary.*

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SECTION – B

2. Answer the following (**any 5** out of 6) :

(5×3=15)

- a) Refound test for co-ordination
- b) Referred pain
- c) Faradic Galvanic test
- d) Borg scale
- e) H-reflex
- f) Chronaxie and Rheobase.

3. Answer the following (**any 3** out of 4) :

(3×5=15)

- a) Various scales for pain assessment
- b) Principles of maitland
- c) Tests for shoulder impingement
- d) Normal EMG pattern.

P.T.O.

63304



SECTION – C

4. A 60 year old housewife who weighs 80 Kg, suffers from knee pain since 1 year.

a) Describe assessment of patient.

8

b) Discuss impairment with clinical reasoning.

7

5. a) A 56 yr old male had bouts of breathlessness and diagnosed to have intrinsic Asthma. He is a smoker and driver by occupation.

a) Describe the assessment of patient.

8

b) Discuss the impairments with clinical reasoning.

7

OR

b) A 40 yr old female, known diabetic since 5 yrs developed Rt. sided weakness. CT scan revealed ischemia in the MCA territory

a) Describe the assessment of patient.

8

b) Discuss the impairments with clinical reasoning.

7



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**Third B.P.Th. (Revised) Examination, Summer 2013
PHYSICAL DIAGNOSIS AND MANIPULATIVE SKILLS**

Total Duration: Section A + B + C = 3 Hours

Section B & C Marks: 60

SECTION – B & SECTION – C

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SECTION – B

2. Answer the following (any 5 out of 6). (5×3=15)
- a) Rebound test for co-ordination
 - b) Rigidity and its types
 - c) H-reflex
 - d) Grades described by maitland
 - e) Symmetric tonic neck reflex
 - f) Three pathological end feels with example.
3. Answer the following (any 3 out of 4). (3× 5=15)
- a) Timed Get up and Go test
 - b) Explain PNF principles
 - c) Tests for cervical spondylosis
 - d) Assessment of obesity.

SECTION – C

- Long answer question. (1×15=15)
4. A 60 year old housewife who weighs 80 kg, suffers from knee pain since 1 year.
Evaluate the case with KF and give the functional diagnosis. (10+5)

P.T.O.

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Long answer question.

(1×15=15)

5. a) A 56 year old male had bouts of breathlessness and diagnosed to have intrinsic asthma. He is a smoker and lives in a hill station. Evaluate the case with ICF and give the functional diagnosis.

(10+5)

OR

- b) A 55 year old school teacher, known hypertensive since 20 years had a haemorrhagic stroke that resulted in right sided weakness. Scan revealed MCA territory involvement. Evaluate with ICF and give the functional diagnosis.

(10+5)



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Third B.P.Th. (Old) Examination, Winter 2013
ELECTRO DIAGNOSIS / FUNCTIONAL ANALYSIS AND CLINICAL
REASONING

Total Duration: Section A + B + C = 3 Hours

Section B & C Marks: 60

SECTION – B & SECTION – C

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SECTION – B

(30 Marks)

2. Answer the following (**any five** out of six) :

(5×3=15)

- a) Enumerate various types of peripheral nerve lesions.
- b) Factors limiting joint range of motion.
- c) Convex Concave Rule.
- d) Capsular pattern for shoulder joint.
- e) Visual Analogue Scale.
- f) Denervation diphasics and positive sharp waves.

3. Answer the following (**any three** out of four) :

(3×5=15)

- a) Borgs rating of perceived exertion with its indication and uses.
- b) Describe pain assessment methods.
- c) Criteria for termination of graded exercise testing.
- d) Describe normal and abnormal End feels.

P.T.O.

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SECTION – C

(30 Marks)

4. Discuss the functional analysis and clinical reasoning for a 45 yrs. old House wife who suffered from severe pain in low back with sharp shooting pain radiating down her left lower limb when she attempted to move a heavy furniture item at home. (1×15=15)
5. a) A 45 year old electrician comes with complaints of Rt wrist drop following an injection in his Rt arm. Discuss the functional analysis with clinical reasoning in terms of impairment, activity limitation and participatory restriction. (1×15=15)

OR

5. b) A 50 years old mill worker chronic smoker comes with history of cough for the past 3 months with history of dysnoea on exertion; grade 3. He is diagnosed as COPD stays on fourth floor in a chawl and is the sole earning member in a family of five. Give assessment and functional analysis. (1×15=15)
-

Third B.P.Th. (Revised) Examination, Summer 2012
PHYSICAL DIAGNOSIS AND MANIPULATIVE SKILLS

Total Duration: Section A + B + C = 3 Hours

Section B & C Marks: 60

SECTION – B & SECTION – C

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SECTION – B

2. Answer the following (any five out of six) :

(5×3=15)

- a) Grades of clubbing
- b) Co-ordination tests
- c) Drop arm test
- d) Concave – convex rule
- e) Define SNAGS
- f) Absolute contraindications of ETT.

3. Answer the following (any three out of four) :

(3×5=15)

- a) Determinants of gait
- b) S.D. curve
- c) Butler's concept
- d) Special tests for shoulder.

P.T.O.

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SECTION – C

4. i) What are the principles of peripheral joint mobilization ? 3
- ii) Precautions while giving mobilizations. 5
- iii) Indications and contra indications for the same. 7
5. a) i) Describe normal development. 3
- ii) Abnormal reflexes. 5
- iii) Neonatal reflexes. 7
- OR
5. b) i) A 50 year old male person as a bus driver suffering from Parkinson's disease, discuss body functions and structures. 7
- ii) Participation restriction. 3
- iii) Activity limitation and facilitators and barriers. 5
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Third B.P.Th. (Old) Examination, Summer 2012
ELECTRO DIAGNOSIS/FUNCTIONAL ANALYSIS AND CLINICAL
REASONING

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SECTION – B & SECTION – C

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SECTION – B

2. Answer the following (**any five**) : (5×3=15)

- a) Neuroplasia.
- b) Factors limiting joint range of motion.
- c) Salient radiological features in Pott's spine.
- d) ECG changes seen in Myocardial infarction
- e) Tests for stability of elbow joint.
- f) Salient features of Parkinson's disease.

3. Answer the following (**any three**) : (3×5=15)

- a) 'H' Reflex
- b) Strategies for balance
- c) Principles of Mulligan's techniques
- d) Assessment of below knee amputation patient.

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SECTION – C

4. 50 year old mill worker comes with complaints of cough with expectoration since three months. Similar complaints present off and on since last two years.

(1×15=15)

a) Describe assessment of patient.

8

b) Discuss impairments with clinical reasoning.

7

5. a) 45 year old lady tailor comes with history of low back pain and difficulty doing her occupational work. She is in this profession since 20 years. She is a widow and has two school going children.

(1×15=15)

i) Describe assessment of patient.

ii) Discuss impairments with clinical reasoning.

7

OR

b) 50 year old male patient, diabetic and hypertensive, comes with chief complaints of right sided hemiplegia since last one month. CT scan shows left MCA territory infarct. He stays on 6th floor and drives a car to work. He is a software professional.

(1×15=15)

i) Describe assessment of patient.

8

ii) Discuss impairments with clinical reasoning.

7