

# B.Pht. [Final Prof.]

BF/J/2009/07

## P.T. in Medical Conditions

[Old Scheme]

M.M. : 100

Time : 3 Hours

### SECTION - A

All questions are compulsory. Answer to each question upto 5 lines in length. Each question carries 2 Marks. [20]

1. What is Obstructive Oedema.
2. Write down the preventive measures for Osteoarthritis of knee.
3. Write down the diagnostic criteria for Myofascial pain syndrome.
4. Write down the causes and complications of Swelling of hand in Hemiplegia.
5. Write short note on Heterotrophic bone formation in spinal cord injury.
6. Differentiate between Fascial and Bell's palsy.
7. Write short note on Bronchial breath sound.
8. Write down the role of PT in rickets.
9. Write down the DONT's in case of Rheumatoid hand.
10. Write short note on incentive Spirometry.

### SECTION – B

Attempt any 8 questions. Answer to each question upto 2 pages in length. Each questions carries 6 Marks. [48]

1. What is Postural drainage.
2. How will you differentiate between Patello femoral osteoarthritis and Tibio femoral osteoarthritis.
3. Write down the DO's and DONT's in DVT.
4. Write down the PT management of Trophic ulcer.
5. Write down the diagnostic feature of Amyotrophic lateral sclerosis.
6. Write down the disability in case of Median nerve injury.
7. Write down the role of physiotherapy in the diagnosis of High risk babies.
8. Write down the PT management of Fibrositis.
9. Write down the PT management of Pleural effusion.
10. Write short note on Suction.
11. Describe the clinical features of Congestive cardiac failure.
12. Write short note on Primary tuberculosis.

### SECTION – C

Attempt any Two questions. Answer to each question upto 5 pages in length. Each question carries 16 Marks. [32]

1. Write down the trunk problems in Hemiplegia and its PT management.
2. Evaluate a case of Ankylosing spondylitis and write down its PT management.
3. Describe the Pleural conditions and their management.
4. How will you differentiate between Arterial and Venous diseases. Write down their physiotherapy management.

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# B.Pht. [Final Prof.]

BF/J/2009/07

## P.T. in Surgical Conditions

[Old Scheme]

**M.M. : 100**

**Time : 3 Hours**

### SECTION - A

*All questions are compulsory. Answer to each question upto 5 lines in length. Each question carries 2 Marks.* [20]

1. Define Maximum Heart rate.
2. What is Rule of nine.
3. What is Split skin grafts.
4. Illustrate and define Gritti Strokes amputation.
5. Enlist different layers of Pelvic floor muscle.
6. Explain diagrammatically Leg length measurement.
7. Define Tendinitis.
8. Classify Fractures on the basis of aetiology.
9. Enlist 05 clinical signs of Fracture.
10. Define Pursed lip breathing.

### SECTION - B

*Attempt any 8 questions. Answer to each question upto 2 pages in length. Each questions carries 6 Marks.* [48]

1. Write a short note on SWD for sinusitis.
2. VIC is seen as a complication of which fracture. Explain its mechanism with PT management.
3. Describe the function, effect of lesion and method of assessment for Trigeminal cranial nerve.
4. What is Radical mastectomy? Discuss its complications and role of physiotherapy postoperatively.
5. What is Mallet finger. Explain & discuss its PT management post operatively.
6. Discuss Excisional arthroplasty of elbow with PT management.
7. Explain the prerequisite for Tendon transfer. Describe a tendon transfer for Quardricep paralysis with pre and post operative PT management.
8. What are the different levels of B/k amputation. Define an ideal stump and give pre and post operative PT management.
9. In which conditions, Laminectomy is the choice of operation. Discuss the role of PT post operatively.
10. Write a short note on Cardiac rehabilitation.
11. What is IPPV. How do you wean off a patient from a ventilation.
12. What is Thoracoplasty. Which all muscles are incised in its incision. Discuss its PT management post operatively.

### SECTION - C

*Attempt any ONE questions. Answer to each question upto 5 pages in length. Each question carries 16 Marks.* [32]

1. Discuss general complications of Surgeries. Give their pre and post operative PT management.
2. Illustrate and define different levels of Amputation in Upper and Lower extremity. Give a general outline for pre and post operative PT management for Lower limbs.
3. Explain the mechanism and assessment of PCL injury. Discuss the role of PT in PCL reconstruction.
4. Compare and contrast the clinical presentation of Radial nerve injury above Elbow and below Elbow with diagram. Give post operative PT management for their nerve repair.

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# **B.Pht. [Final Prof.]**

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## **Rehabilitation Medicine**

[Old Scheme]

**M.M. : 50**

**Time : 2 Hours**

### **SECTION - A**

*All questions are compulsory. Answer to each question upto 5 lines in length. Each question carries 2 Marks.* [10]

1. Dyslexia.
2. Disability.
3. Social counseling.
4. Modified boots.
5. Work adjustment.

### **SECTION – B**

*Attempt any 4 questions. Answer to each question upto 2 pages in length. Each questions carries 6 Marks.* [24]

1. Weight bearing devices.
2. Indications and contra indications of Traction.
3. Four Bar lumbar (knight) brace.
4. Role of family in rehabilitation.
5. Below elbow prosthesis.
6. Non thermal effects of Ultrasound.

### **SECTION – C**

*Attempt any ONE questions. Answer to each question upto 5 pages in length.* [16]

1. Describe the role of evaluation in a case with Post Polio residual paralysis of both lower limbs. How will you record range of motion findings.
2. What do you understand by Neurogenic bladder. Describe its management in a person with paraplegia due to compression fracture of D<sub>12</sub>/L<sub>1</sub>.

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# **B.Pht. [Final Prof.]**

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## ***Psychiatry***

[Old Scheme]

**M.M. : 50**

**Time : 2 Hours**

### **SECTION - A**

*All questions are compulsory. Answer to each question upto 5 lines in length. Each question carries 2 Marks.* [10]

1. Define 'Phobia'.
2. Indications of ECT.
3. Hallucinations.
4. Flight of ideas.
5. Repression.

### **SECTION - B**

*Attempt any 4 questions. Answer to each question upto 2 pages in length. Each questions carries 6 Marks.* [24]

1. Management of Obsessive Compulsive Disorder [OCD].
2. Epilepsy.
3. Mania.
4. Hysteria.
5. Mental retardation.
6. Anti anxiety drugs.

### **SECTION - C**

*Attempt any ONE questions. Answer to each question upto 5 pages in length.* [16]

1. Describe Neurotic disorders, their aetiology, clinical features and management.
  2. Describe in detail procedure, indications, and contra indications of ECT.
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## Applied Mathematics & Statistics

[Old Scheme]

M.M. : 50

Time : 2 Hours

**NOTE : THE CANDIDATES MAY USE SIMPLE CALCULATOR & MAY ASK FOR LOG TABLES.**

### SECTION - A

All questions are compulsory. Each question carries 2 Marks. [10]

1. Prove that  $7 \log \frac{16}{15} + 5 \log \frac{25}{80} + 3 \log \frac{81}{80} = \log 2$
2. The sum of the squares of two numbers is 233 and one of the numbers is 3 less than twice the other. Find the numbers.
3. Prove that  $\tan^2 \theta - \sin^2 \theta = \tan^2 \theta \sin^2 \theta$
4. What is Chi-square( $\chi^2$ ) test? Under what conditions, is it applicable?
5. Enumerate the various properties of normal distribution.

### SECTION - B

Attempt any 4 questions. Each questions carries 6 Marks. [24]

1. Find the area of the base of a right tetrahedron whose volume is  $675\sqrt{3}$  cu cm and height is 25 cm. Also find the side of the base.
2. If  $\tan A + \sin A = m$  and  $\tan A - \sin A = n$ , then show that  $m^2 - n^2 = \pm 4\sqrt{mn}$ .
3. Using Log table evaluate correct to three decimal places  $\sqrt[3]{\frac{31.42 \times 7.192}{8(0.236)^2}}$
4. The median and mode of the following wage distribution are known to be Rs. 3350 and Rs. 3400 respectively:

<b>Wages(in Rs.)</b>	0-1000	1000-2000	2000-3000	3000-4000
<b>No. of employees</b>	4	16	$f_3$	$f_4$
<b>Wages(in Rs.)</b>	4000-5000	5000-6000	6000-7000	
<b>No. of employees</b>	$f_5$	6	4	

Total employees = 230

Find the values of  $f_3$ ,  $f_4$  and  $f_5$ . Also calculate Standard deviation of the distribution.

5. Ten recruits were subjected to a selection test to ascertain their suitability for a certain course of training. At the end of the training, they were given a proficiency test. The marks secured by recruits in the selection test(x) and proficiency test(y) are given below:

Sr. No. :	1	2	3	4	5	6	7	8	9	10
X :	10	15	12	17	13	16	24	14	22	20
Y :	30	42	45	46	33	34	40	35	39	38

**Calculate Product moment correlation coefficient and Rank correlation coefficient. Why are two coefficients different?**

6. a. Write down the applications of t-distribution.  
b. The Nicotine content (in milligrams) of two samples of tobacco were found to be as follows:

Sample A :	24	27	26	21	26	
Sample B :	27	30	28	31	22	36

**Can it be said that two samples comes from the same normal population?**

P.T.O.

**SECTION – C**

Attempt any ONE questions.

[16]

- 1a. A piece of cloth costs Rs. 35.00. If the piece be 4 metres longer and each metre costs Rs. 1:00 less, the cost would remain unchanged. How long is the piece?
- 1b. What is meant by Correlation? Also distinguish with suitable examples between:
  - i) Positive and Negative correlation.
  - ii) Linear and Non linear correlation.
- 2a. Explain what is meant by a test of significance. Describe the procedure of carrying it out.
- 2b. In the course of anti-malarial work, Quinine was administered to 606 adults out of total population of 3540. the incidence of malarial fever is shown below. Discuss the preventive value of Quinine.

	<b>Fever</b>	<b>No Fever</b>	<b>Total</b>
<b>Quinine</b>	19	587	606
<b>No Quinine</b>	193	2741	2934
<b>TOTAL</b>	212	3328	3540

$(\chi^2_{0.05} = 3.841, \quad \chi^2_{0.05} = 9.488 )$

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