

B.P.T. [3rd Prof.]

BF/2009/07

Orthopaedics

M.M. : 90

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. Mallet finger.
2. Genu varum.
3. Knee effusion.
4. Pointing index test.
5. Telescoping test.
6. Trendelenberg test.
7. Flat foot.
8. Wrist drop.
9. Allis test.
10. SLR test.

SECTION - B

Attempt any 8 questions. Answer to each question upto 2 pages in length. Each questions carries 5 Marks.

[40]

1. Morant baker cyst.
2. Osgood schlatter disease.
3. Biopsy.
4. Compression plating.
5. Homologus bone graft.
6. Duputren's contracture.
7. Bed sore.
8. Wry neck.
9. Meniscal injury.
10. Osteochondritis dissecans.
11. Sprain and strain.
12. Lipoma.

SECTION - C

Attempt any 2 questions. Answer to each question upto 5 pages in length. Each questions carries 15 Marks.

[30]

1. Discuss the clinical features, diagnosis and management of Osteosarcoma.
2. Discuss the clinical features, diagnosis and management of Congenital dysplasia of Hip.
3. Classify Open Fractures. Discuss the management of Open fractures of both bones of Leg.
4. Discuss the clinical features, diagnosis & management of Supracondylar fracture of Humerus. Describe the complications.

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General Medicine

M.M. : 90

Time : 3 Hours

SECTION - A

All questions are compulsory. Answer to each question up to 5 lines in length. Each question carries 2 Marks.

[20]

1. Routes of transmission of HIV infection.
2. Causes of Goitre.
3. Routes of transmission of Tuberculosis.
4. Causes of Lung abscesses.
5. Protein Energy Malnutrition.
6. Causes of Pulmonary embolism.
7. Prevention of Measles.
8. Types of Chronic Leukemias.
9. Drugs used in the treatment of Manic depressive episodes.
10. Treatment of Tinea Versicolor.

SECTION - B

Attempt any 8 questions. Answer to each question upto 2 pages in length. Each questions carries 5 Marks.

[40]

1. Management of Type I Diabetes Mellitus.
2. Management of Rheumatic heart disease.
3. Clinical features of Tubercular meningitis.
4. Clinical features of Amoebiasis.
5. Types of Dysentery.
6. Causes of Hyperpigmentation.
7. Transmission of Syphilis.
8. Causes of Hematuria.
9. Sex education on Sexually transmitted diseases.
10. Causes of Dyspepsia.
11. Note on Atopic dermatitis.
12. Definition and types of Diabetes Mellitus.

SECTION - C

Attempt any 2 questions. Answer to each question upto 5 pages in length. Each questions carries 15 Marks.

[30]

1. Causes and Management of essential Hypertension.
2. Types of Sexually transmitted diseases and their prevention.
3. Causes of Coronary artery disease and their prevention.
4. Obesity and its hazards.

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P.T. in Ortho Conditions

M.M. : 90

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. Write down the mechanism of injury for the fracture dislocation of spine.
2. What is arthrodesis?
3. List out the injuries that occur due to fall on outstretched hand.
4. Describe the clinical test for the diagnosis of muscle rupture.
5. Write down the complications of head forward posture.
6. What is Housemaid's knee?
7. Write down the role of PT in advanced rehabilitative phase following lower limb sports injury.
8. Write down the complications of fracture of both bones of forearm.
9. What is Apley's distraction test?
10. Write down the importance of stump exercise.

SECTION - B

Attempt any 8 questions. Answer to each question upto 2 pages in length. Each questions carries 5 Marks. [40]

1. Compare and contrast between Skin traction and Skeletal traction.
2. Compare and contrast between Joint effusion and Haemarthrosis.
3. Compare and contrast between G-II and G-III sprain.
4. What is Pott's fracture.
5. Compare and contrast between Phantom limb sensation and Phantom pain.
6. Write down on early ambulation in amputee.
7. Describe Genu valgum gait deviation in Bk amputee.
8. What is Equinus deformity.
9. Write down PT in Meniscectomy.
10. Write down PT following total hip cemented arthroplasty.
11. Write down PT following ACL reconstruction.
12. Write down PT for Torticollis.

SECTION - C

Attempt any 2 questions. Answer to each question upto 5 pages in length. Each questions carries 15 Marks. [30]

1. Write down the evaluation of a case of PIVD lumbar spine and its physiotherapy management.
 2. Write down the complications of fracture Colle's and their management.
 3. Write down the mechanism of injury, clinical features and physiotherapy management of Grade-II Sprain anterior talofibular ligament of ankle joint.
 4. Write down the check out of Bk Prosthesis.
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P.T. in Medical Condition-I

M.M. : 90

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 Oedema.
2. Pneumonia.
3. Percussion.
4. Diabetes.
5. Sexually transmitted disease.
6. What are the causes of Periarthritis.
7. Inflammation.
8. Infective arthritis.
9. Broncho Pleural fistula.
10. Thrombo Angitis Oblituans[TAO]

SECTION – B

Attempt any 8 questions. Answer to each question upto 2 pages in length. Each questions carries 5 Marks. [40]

1. Pulmonary function test.
2. What is the management of Bronchitis.
3. Write various types of Chest deformities.
4. What is Hypertension?
5. Write physiotherapy management of Ankylosing Spondylitis.
6. Carcinoma of Respiratory tract.
7. Emphysematous Bullae.
8. Breathing exercise for breathless patient.
9. Role of physiotherapy in empyema.
10. Paradoxial breathing.
11. Pulmonary embolism.
12. Buerger's disease.

SECTION – C

Attempt any 2 questions. Answer to each question upto 5 pages in length. Each questions carries 15 Marks. [30]

1. What is COPD? Describe the physiotherapy management of patient suffering from COPD.
2. What is Obesity? Describe various measures to control Obesity.
3. Describe the clinical features, management and complications of Osteoarthritis of Knee.
4. Enumerate the Hand and Wrist deformities in a case of Rheumatoid arthritis. What are the management?

Research Methodology

M.M. : 90

Time : 3 Hours

NOTE : NON-SCIENTIFIC CALCULATOR IS ALLOWED.

SECTION - A

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

1. Define Research methodology.
2. Define reliability of a test.
3. Define one tailed tests.
4. Define acceptance and rejection regions.
5. What is the difference between Census and Sample methods?
6. What is Simple random sampling?
7. What are main principles of Sampling?
8. Which measure of Central tendency, you will apply when qualitative data are given?
9. What is Sampling error?
10. What are non-parametric tests?

SECTION - B

Attempt any 8 questions. Answer to each question upto 2 pages in length. Each questions carries 5 Marks. [40]

1. Design a Questionnaire for the Chronic heart patients.
2. How sampling errors can be reduced?
3. Define Rating scales. Give their advantages.
4. Discuss the types of Validity that test can have.
5. **Compute mean deviation from Mean in absolute and relative sense from the following data:**

Marks:	0-10	10-20	20-30	30-40	40-50
No. of students:	1	5	18	10	6
6. Explain one sample run test and give its uses.
7. How would you evaluate a research report?
8. **Write short notes on the following:**
 - i) Descriptive statistics.
 - ii) Limitations of research in clinical practice.
9. **Calculate Co-efficient of Correlation by the method of Prof. Karl Pearson from the following data:**

X:	80	90	100	105	110	120	130
Y:	70	65	60	65	50	45	40
10. **A certain stimulus administered to each of 10 patients result in the following change in blood pressures:**
10, 4, -5, 12, -5, 3, -2, -6, 4, 7
Can we conclude at 5 percent level of significance that, in general, the stimulus results no change in blood pressure.
11. How the normal probability curve is useful in the context of clinical research?
12. Discuss the procedure for testing a hypothesis.

SECTION – C

Attempt any 2 questions. Answer to each question upto 5 pages in length. Each questions carries 15 Marks. [30]

1a. Explain the applications of Chi-square test. [5]

1b. **Can vaccination be regarded as preventive measure of small pox as evidenced by the following data:**

	Vaccinated	Not Vaccinated
Attacked	35	333
Not Attacked	308	806

$$(X^2_{0.05}^{(1)}=3.841) \quad [10]$$

2. **Perform Two-way ANOVA on the data given below:**

		Treatment I			
		(i)	(ii)	(iii)	(iv)
Treatment II	(i)	30	33	36	27
	(ii)	26	24	31	35
	(iii)	38	35	30	36

Discuss whether there is any significant difference between Treatment I or between Treatment II. [15]

3. **A computer, while calculating the Correlation Coefficient between two variables X and Y from 25 pairs of observations, obtained the following results:.**

$$N=25, \Sigma X=125, \Sigma X^2=650, \Sigma Y=100, \Sigma Y^2=460, \Sigma XY=508$$

At the time of checking, it was found that the following two pairs were wrong

X	Y
6	14
8	6

while the correct value were

X	Y
8	12
6	8

Obtain the correct value of Correlation Coefficient. [15]

4. Discuss the importance of Research in clinical practice with scientific approach. Also point out its purposes. [15]
