Question Paper

Exam Date & Time: 05-Sep-2019 (02:00 PM - 04:00 PM)

MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND SEMESTER BPT / B.Sc. C.V.T./ B.Sc. R.T./ B.Sc. M.I.T./ B.Sc. RRT&DT / B.O.T./ B.Sc. E.S.S. DEGREE EXAMINATION - SEPTEMBER 2019
SUBJECT : ANATOMY II
(ANAT 104; ANAT 102; ANAT 102/BRES 102; ANAT 102/BMIT 102; ANAT 102; ANAT 104; ANAT 102)
(2016 RV & 2016 SCHEME)
Thursday, September 05, 2019 (14.00 - 16.00)

Marks: 50 **Duration: 120 mins.**

1) **Describe the hip joint under the following headings:**

1A)	Articular surfaces	(2)
1B)	Names of the ligaments	(3)
1C)	Muscles producing each of its movements	(3)
1D)	Applied anatomy	(2)

Answer all the questions.

2)	a) Describe the origin, insertion, nerve supply and actions of deltoid muscle. b) Mention the applied anatomy of deltoid muscle. c) Name any six structures lying deep to (under cover of) the deltoid muscle. (2+1+1+2+1+3 = 10 marks)	(10)
3A)	Gluteus medius muscle	(5)
3B)	Ulnar nerve	(5)
3C)	Hamstring muscles	(5)
3D)	Brachial artery	(5)
4A)	Vertebral column	(2)
4B)	Carpal tunnel	(2)
4C)	Serratus anterior muscle	(2)
4D)	Posterior cord of brachial plexus	(2)
4E)	Femoral nerve	(2)

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Question Paper

Exam Date & Time: 12-Sep-2019 (02:00 PM - 05:00 PM)

MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND SEMESTER BPT DEGREE EXAMINATION - SEPTEMBER 2019
SUBJECT: BPT 102 - BASICS OF EXERCISE THERAPY - II
(2016 RV SCHEME)
Thursday, September 12, 2019 (14.00 - 17.00)

Marks: 100 **Duration: 180 mins.**

Answer all the questions.

1A)	Define Passive movements. Explain the principles of relaxed passive movements. Discuss the effects and uses of relaxed passive movements. (2+10+8 = 20 marks)	(20)
1B)	Define suspension therapy. Add a note on the types of suspension. Explain the procedure of strengthening the hip abductors using suspension therapy. (2+10+8 = 20 marks)	(20)
2A)	Define range of motion. Discuss the types of goniometers. (2+8 = 10 marks)	(10)
2B)	What is massage? Discuss in detail any two techniques used in massage. (2+8 = 10 marks)	(10)

3) **Write short notes on:**

3A)	Discuss the effects and uses of hydrotherapy.	(5)
3B)	Explain the indications and procedure of measuring apparent lower limb length.	(5)
3C)	Describe the various types of slings used in suspension therapy.	(5)
3D)	Write a note on the principles of goniometry.	(5)
3E)	Discuss the merits and demerits of facial massage.	(5)
3F)	Describe the method of measuring upper limb girth.	(5)

4) **Write brief answers on:**

4A)	Define Arthrokinematics.	(2)
4B)	Define accessory movements.	(2)
4C)	Name any two properties of water.	(2)
4D)	Define end feel.	(2)
4E)	Name any two contraindications for lower limb massage.	(2)

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Question Paper

Exam Date & Time: 13-Sep-2019 (02:00 PM - 05:00 PM)

MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND SEMESTER BPT DEGREE EXAMINATION - SEPTEMBER 2019
SUBJECT: BPT 104 - ELECTROTHERAPY - I
(2016 RV SCHEME)
Friday, September 13, 2019 (14.00 - 17.00)

Marks: 100 **Duration: 180 mins.**

Answer all the questions.

1A)	Define pain. Enumerate the processes involved in pain production. Explain in detail the ascending and descending mechanism for pain modulation. (4+4+12 = 20 marks)	(20)
1B)	Explain in detail the production of low frequency currents. What are the physiological and therapeutic effects of modified faradic currents? Describe their methods of application. (6+10+4 = 20 marks)	(20)
2A)	Explain in detail the procedure involved in faradic galvanic test. (6+4 = 10 marks)	(10)
2B)	What are medium frequency currents? Describe the principles of production of interferential currents. (2+8 = 10 marks)	(10)

3) **Write short answers on:**

3A)	Discuss the characteristic SD curves for innervated and denervated muscle.	(5)
3B)	Classify TENS. Explain the pain modulation mechanism of each.	(5)
3C)	Enumerate the indications for interrupted direct currents.	(5)
3D)	Discuss electrode placement in IFT.	(5)
3E)	Enumerate the contraindications for application of electrical stimulation.	(5)
3F)	Classify nerve fibers and give its characteristics.	(5)

4) **Write brief answers on:**

4A)	Name the types of nerve lesions.	(2)
4B)	What is a pulse ratio?	(2)
4C)	Give any two advantages of TENS.	(2)
4D)	What are sinusoidal currents?	(2)
4E)	Define Beat frequency.	(2)

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