

Question Paper

Exam Date & Time: 23-May-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SIXTH SEMESTER BACHELOR OF OCCUPATIONAL THERAPY DEGREE EXAMINATION - MAY/JUNE 2024
SUBJECT: BOT 308- OCCUPATIONAL THERAPY IN NEUROLOGICAL, GERIATRIC AND MEDICAL CONDITIONS
(2016 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Explain the types of individuals who may benefit from sensory reeducation and elaborate on the strategies involved in compensatory and discriminative sensory reeducation. (20)
(4+16 = 20 marks)
- 2) Describe two assessments developed by Pizzi for individuals with HIV / AIDS. (20)
(10+10 = 20 marks)
- 3) Describe the remedial and adaptive approaches for perceptual dysfunction. (10)
(5+5 = 10 marks)
- 4) Summarize five interventions 'using performance patterns and client factors' for stage II of Alzheimer's disease. (10)
(2 marks x 5 = 10 marks)
- 5A) Summarize five principles of neurodevelopmental treatment approach. (5)
- 5B) Explain TWO techniques from 'reversal of antagonists' based on proprioceptive neuromuscular facilitation approach. (5)
(2½ marks x 2 = 5 marks)
- 5C) Explain the occupational therapy evaluation process during the 'initial' and 'recovery' phases for an individual with Guillain-Barré Syndrome. (5)
(2½+2½ = 5 marks)
- 5D) Explain Rancho Los Amigos level III of cognitive functioning. (5)
- 5E) Summarize five problems caused due to impairment of trunk control in individuals with stroke. (5)
- 5F) Describe five adaptations to reduce dressing difficulties for individuals with incoordination. (5)
- 6A) State four characteristics of upper motor neuron lesion. (2)
- 6B) Define 'feedback' in the context of learning. (2)
- 6C) List four clinical features of multiple sclerosis. (2)
- 6D) List four activities of daily living matching 1-2 metabolic equivalent of task (MET) level. (2)
- 6E) List TWO standardized assessments used by an occupational therapist in Parkinson's disease. (2)

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Question Paper

Exam Date & Time: 17-May-2024 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SIXTH SEMESTER BACHELOR OF OPTOMETRY DEGREE EXAMINATION - MAY/JUNE 2024
SUBJECT: OPT3203 - OCCUPATIONAL AND COMMUNITY OPTOMETRY
(2020 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1) What are common sources of glare? What are its ocular effects? Outline the ergonomic changes to reduce visual glare. (10)
- 2) List any five components of vision in sports. What is the role of Optometrists in sports vision? (10)
- 3A) What is the relevance of NPCB&VI in community eye care in achieving the goals of vision 2020? Illustrate the role of district hospitals in attaining the goal. (5)
- 3B) A community outreach program that screened 1000 individuals found that out of the 164 individuals with glaucoma 88 were above the age of 50. The total number of individuals above the age of 50 was 488. Consider >50 age as the "exposure" to construct a 2X2 contingency table and find the relative risk for development of glaucoma in older individuals. (5)
- 3C) A 57 year old male working as loco pilot in Indian railways, is diagnosed with ARMD and visual acuity in right eye is CF @ 2 meters, < N36 at 40cms and left eye is 6/36, N36 at 40cms. Comment on visual requirements and vision standards to work as loco pilot. (5)
- 3D) Explain in detail the task involved and visual requirements for carpentry. (5)
- 4A) What is the role of primary school teachers in blindness prevention? Justify your answer. (2)
- 4B) Name any one occupational eye hazard and one recommendation to prevent it. (2)
- 4C)

		Actual Disease	
		+	-
Screening	+	34	54
	-	12	90

 (2)
- Find the specificity of the screening tool.
- 4D) Mention any four uses of ESI act. (2)
- 4E) Describe any four barriers in conducting tele eye care practices in India. (2)

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Question Paper

Exam Date & Time: 23-May-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SIXTH SEMESTER B.Sc. BOT DEGREE EXAMINATION - MAY/JUNE 2024

SUBJECT: OCT3222 - OCCUPATIONAL THERAPY IN NEUROLOGICAL, GERIATRIC AND MEDICAL CONDITIONS
(2020 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Describe Rancho Los Amigos level II, III and IV of cognitive functioning. Explain the following intervention techniques used for low level individual following traumatic brain injury: a) bed positioning b) sensory stimulation. (20)
(12+8 = 20 marks)
- 2) Explain the occupational therapy intervention for the five stages of Parkinson's disease. (20)
(4 marks × 5 = 20 marks)
- 3) Explain energy conservation strategies using the 'brains rather than brawn' approach in individuals with multiple sclerosis. (10)
- 4) Describe the 'preparation' and 'movement' interventions as per the neurodevelopmental treatment. (10)
(5+5 = 10 marks)
- 5A) Describe 'reciprocal patterns' with an example. (5)
(4+1 = 5 marks)
- 5B) Explain the 'facilitatory handling' technique according to neurodevelopmental approach. (5)
- 5C) Summarize five principles of top-down approach used to assess individuals with stroke. (5)
- 5D) Explain two benefits of pursed-lip breathing. (5)
(2½ marks × 2 = 5 marks)
- 5E) Summarize intervention strategies for dysphagia among individuals with Amyotrophic Lateral Sclerosis. (5)
- 5F) Explain the five components of wheelchair seating for an individual post traumatic brain injury at Rancho Los Amigos stages I-III. (5)
- 6A) List two ways occupational therapists can use neurodevelopmental treatment intervention. (2)
- 6B) List two strategies for managing individuals with attention deficit. (2)
- 6C) List four factors limiting the use of upper extremity in individuals with stroke. (2)
- 6D) Define 'coma' and 'vegetative state'. (2)
- 6E) List four activities that can be carried out by individuals at metabolic equivalent of task (MET) level of 2-3. (2)

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Question Paper

Exam Date & Time: 25-May-2024 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SIXTH SEMESTER BOT DEGREE EXAMINATION - MAY/JUNE 2024
SUBJECT: OCT3241 - PROGRAM ELECTIVE - I: ORTHOTICS IN OCCUPATIONAL THERAPY
(2020 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1) Describe the structure and function of HKAFO. (10)
(6+4 = 10 marks)
- 2) Explain the structure of suspension arm device and justify its use in a patient with a shoulder injury. (10)
(4+6 = 10 marks)
- 3A) Describe the structure of the Philadelphia collar and indications for same. (5)
(2½+2½ = 5 marks)
- 3B) Describe the long opponens splint and its indications in hand rehabilitation. (5)
- 3C) Describe five categories of spinal orthoses with an example for each. (5)
- 3D) Describe three advantages and two disadvantages of Minerva brace. (5)
(3+2 = 5 marks)
- 4A) Name four orthoses used to restore mobility of an elbow with flexion contracture. (2)
- 4B) Write the roles of orthosis in rehabilitation. (2)
- 4C) Justify the use of the Sarmiento brace in a patient with humeral shaft fracture. (2)
- 4D) Write two considerations for using plastic brace in the shoe. (2)
- 4E) Write the purposes of the Halo vest brace in rehabilitation. (2)

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Question Paper

Exam Date & Time: 25-May-2024 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SIXTH SEMESTER B.Sc. BOT DEGREE EXAMINATION - MAY/JUNE 2024
SUBJECT: OCT3242 - PROGRAM ELECTIVE - I: AGEING AND OCCUPATIONAL THERAPY
(2020 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1) Explain ageist attitudes towards older adults with examples. (10)
(8+2 = 10 marks).
- 2) Explain the role of occupational therapy in Assisted Living Facilities for older adults. (10)
- 3A) Explain the free-radical theory of aging. (5)
- 3B) Summarize the components that need to be considered in the global framework for population ageing. (5)
- 3C) Explain the benefits of adult day service centers and the usual services offered (3+2 = 5 marks) (5)
- 3D) List five challenges related to 'population ageing and gender' in India. (5)
- 4A) Name two international policy frameworks addressing ageing. (2)
- 4B) Define 'Healthy Ageing'. (2)
- 4C) Name two schemes under the Health sector by the government of India for the elderly. (2)
- 4D) Explain the concept of productive aging. (2)
- 4E) List four factors that are impediments to occupational functioning in older adults. (2)

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