

CBCS SCHEME

USN

--	--	--	--	--	--	--	--

18BM/ML55

Fifth Semester B.E. Degree Examination, Jan./Feb. 2021 Rehabilitation Engineering

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. What is health? Explain with relevant graph the prepathogenesis and pathogenesis stages leading to rehabilitation. (10 Marks)
- b. What are the levels of prevention? Explain. (10 Marks)

OR

- 2 a. With a neat sketch block diagram explain the interaction between physiatrist and other core members of the rehabilitation team. (10 Marks)
- b. Discuss the roles of rehabilitation nurse and speech pathologist. (10 Marks)

Module-2

- 3 a. With the components of coordinated activity, explain the general principles of coordination training. (10 Marks)
- b. Briefly explain the determinants of gait. (10 Marks)

OR

- 4 a. Discuss the types of aphasia. (10 Marks)
- b. List the general principles of mobilization exercises and the grades of mobilization. (10 Marks)

Module-3

- 5 a. Discuss the general principles of orthosis. (10 Marks)
- b. With a neat sketch explain parts of a shoe in foot orthosis. (10 Marks)

OR

- 6 a. With a relevant figure explain functional electrical stimulator. (10 Marks)
- b. Explain the different types of static splints. (10 Marks)

Module-4

- 7 a. In detail list the causes of amputation. (10 Marks)
- b. With a neat figure explain the levels of amputation in upper limb. (10 Marks)

OR

- 8 a. Explain the components of a prosthesis. (10 Marks)
- b. With neat diagram explain above knee prosthesis for transfemoral amputation. (10 Marks)

Module-5

- 9 a. With functions of mobility aids, list on what the selection of a walking aid depends upon. (10 Marks)
- b. Explain the different types of walking frames. (10 Marks)

OR

- 10 a. Explain the different types of crutches. (10 Marks)
- b. Briefly explain the wheelchair maintenance and wheelchair modifications. (10 Marks)

* * * * *

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and/or equations written eg, 42+8 = 50, will be treated as malpractice.