

GAIT QUESTION BANK

S. N O	Question Type	Question	Year	Blooms Taxonomy
1	Essay – 15 Marks	Describe gait cycle in detail including stance phase, swing phase, double support phase and its subdivisions with temporal parameters.	Jan 2022	Analyze
2	Essay – 15 Marks	Analyze joint motions at hip, knee and ankle during normal gait cycle with degrees of movement in each phase.	Jun 2022	Analyze
3	Essay – 15 Marks	Discuss muscle activity at hip, knee, ankle, trunk and upper extremities throughout the gait cycle.	Nov 2023	Analyze
4	Essay – 15 Marks	Explain pathological gait patterns and their biomechanical implications (e.g., Trendelenburg, antalgic, hemiplegic, Parkinsonian gait).	Aug 2024	Apply
5	Essay – 15 Marks	Describe determinants of gait and their role in energy conservation during walking.	Feb 2020	Analyze
6	Essay – 15 Marks	Discuss muscle activity during stance and swing phase with emphasis on eccentric and concentric contractions.	Aug 2010	Analyze
7	Essay – 15 Marks	Explain the role of ankle plantarflexors in push-off and knee flexors in swing phase advancement.	Apr 2023	Analyze

8	Essay – 15 Marks	Analyze deviations in gait due to weakness of gluteus medius, quadriceps and gastrocnemius with compensatory mechanisms.	Oct 2016	Analyze
9	Essay – 15 Marks	Describe the kinematics and kinetics of hip joint during gait cycle with ground reaction forces.	Apr 2014	Analyze
10	Essay – 15 Marks	Discuss energy expenditure in normal gait and changes in pathological conditions like amputee gait and arthritic gait.	Feb 2020	Analyze
11	Short Notes	Stance phase of gait	Aug 2009	Understand
12	Short Notes	Double support phase	Aug 2009	Understand
13	Short Notes	Determinants of gait	Oct 2022	Remember
14	Short Notes	Trendelenburg gait	Oct 2022	Analyze
15	Short Notes	Antalgic gait	Apr 2023	Understand
16	Short Notes	Muscle activity in initial contact	Nov 2023	Understand
17	Short Notes	Push-off phase	Nov 2023	Remember
18	Short Notes	Step length and stride length	Aug 2024	Analyze
19	Short Notes	Hemiplegic gait	Feb 2025	Understand

20	Short Notes	Cadence	Feb 2010	Understand
21	Short Answers	Percentage of stance phase in gait cycle	Sep 2021	Remember
22	Short Answers	Muscle active in heel strike	Jan 2022	Remember
23	Short Answers	Phase with maximum knee flexion	Jun 2022	Understand
24	Short Answers	Primary muscle for toe clearance in swing	Apr 2023	Remember
25	Short Answers	One determinant of gait	Nov 2023	Understand
26	Short Answers	Duration of double support in normal walking	Aug 2009	Remember
27	Short Answers	Muscle weak in circumducted gait	Feb 2010	Remember
28	Short Answers	Gait deviation in gluteus maximus weakness	Jan 2022	Understand
29	Short Answers	Phase with maximum plantarflexion	Aug 2024	Understand
30	Short Answers	Clinical feature of festinant gait	Jan 2022	Apply