The Immune System: Anatomy Review

1.	Name the two major anatomical parts of the immune system:
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	•
2.	List four lymphoid organs and tissues that are part of the immune system.
	•
	•
	•
3.	Primary lymphoid organs, where B and T cells originate and mature, are the bone marrow and thymus
	Fill in the following:
	Both B and T cells originate from
	The B cells mature in the
	The T cells mature in the
	(Hint: This is how they came to be called B and T cells.)
4.	Secondary lymphoid organs, where lymphocytes become activated, include the following structures:
	•
	•
	•
	•
5.	The lymphatic system consists of the following three structures:
	•
	•

6.	The lymphatic vessels collect excess interstitial fluid that leaves the cardiovascular capillaries and returns
	it to the cardiovascular system.
	• How many liters per day are collected? L/day
	• To which organ is lymph returned?
	ullet Complete the pathway for lymph to return to the cardiovascular system: lymph capillaries $ullet$ lymph
	→ lymph → cardiovascular system.
7.	If lymphatic vessels do not function properly, there will be a buildup of fluid in the tissues. This
	condition is known as
8.	The lymphatic capillaries have valves to collect the excess interstitial fluid and any leaked
	proteins.
9.	The lymph is filtered through the, where antigens and pathogens are removed and the immune
	system can be activated. What types of lymphocytes remove these antigens and pathogens?
10.	Special lymphatic capillaries in the intestines, called, transport absorbed from the
	intestines into the blood.
11.	Name three areas of the body where lymph nodes are clustered:
	•
	•
	•
12.	Name two functions of the lymph nodes:
	•
	•
13.	Whilelymphatic vessels carry lymph from the tissues to the lymph nodes,
	vessels carry cleansed lymph away from the lymph nodes.
14.	Name these portions of the lymph node:
	•Connective tissue surrounding the entire lymph node

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21.	The, a primary lymphoid organ, is the site for differentiation of lymphocytes into mature T
	cells. What happens to this organ as we age?