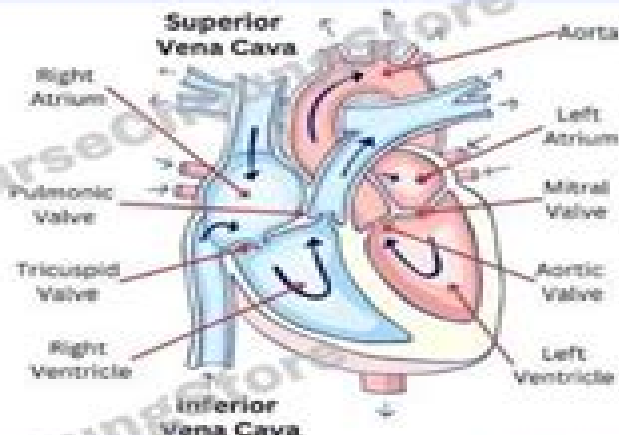


CARDIOVASCULAR SYSTEM

SCIENCE



Anatomy of Heart

A cone-shaped organ situated in the mediastinal space is safeguarded and cushioned by the pericardial sac.

This sac encloses the heart, provides lubrication, and contains approximately 5-20 mL of pericardial fluid.

Comprising two layers:

- Pericardial sac consists of the outer membrane called the **parietal pericardium**
- Inner membrane known as the **visceral pericardium**, which is directly attached to the heart.

Cardiac Layers

- **Epicardium**: the outermost layer of the heart
- **Myocardium**: the middle layer of the heart, the contracting muscle of the heart
- **Endocardium**: the innermost layer of the heart, lines the inner chambers, and the valves

Cardiac Valves

Two atrioventricular valves close to impede the backward flow of blood into the atria during ventricular contraction. These valves prevent the regurgitation of blood.

- **Tricuspid**: on the right side of the heart
- **Bicuspid/Mitral**: on the left side of the heart

Two semilunar valves close to impede the backward flow of blood into the ventricles during relaxation.

- **Pulmonic**: between the right ventricle and pulmonary artery
- **Aortic**: between the left ventricle and aorta

RIGHT SIDE

DEOXYGENATED BLOOD
Carries oxygen-poor blood from the body back to the right atrium

1. Superior Vena Cava/ Inferior Vena Cava
2. Right Atrium
3. Tricuspid Valve
4. Right Ventricle
5. Pulmonic Valve
6. Pulmonary Artery

LEFT SIDE

OXYGENATED BLOOD
Carries oxygen-rich blood from the lungs to the body

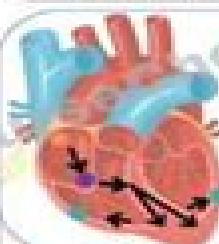
7. Pulmonary Vein
8. Left Atrium
9. Bicuspid / Mitral Valve
10. Left Ventricle
11. Aortic Valve
12. Aorta

Vascular System

ARTERIES - Transport oxygen-rich blood to the tissues
- "AORTA: Arteries Oxygenate and Reach Tissues Alive."

VEINS - Return deoxygenated blood back to the heart
- "VERB: Veins Efficiently Return Blood."

Cardiac Conduction System



- SA Node**: Right Atrium of the Heart
Beats between 60 - 100 bpm
- AV Node**: Between the atria and ventricles
Beats between 40 - 60 bpm
- Purkinje Fibers**: Extend from bundle branches to ventricles
Beats between 20 - 40 bpm

Systole vs Diastole

Systole corresponds to the heart's contraction, while **Diastole** represents its relaxation.



Systole: the heart pumps blood into the arteries as the atrioventricular valves close, resulting in the characteristic "lub" sound.



Diastole: heart chambers fill with blood as blood flows into the heart, and the semilunar valves cause the distinctive "dub" sound.

100%
SAFE

Capt Science Study Guide

Webster House



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CAPT SCIENCE Webster House, 2004-07 **Captain Superlative** J. S. Puller, 2018-05-04 Debut author J S Puller delivers an inspirational story full of heart humor and breathtaking revelations Have no fear citizens Captain Superlative is here to make all troubles disappear Red mask blue wig silver swimsuit rubber gloves torn tights high top sneakers and a cape Who would run through the halls of Deerwood Park Middle School dressed like this And why Janey quick to stay in the shadows can't resist the urge to uncover the truth behind the mask The answer pulls invisible Janey into the spotlight and leads her to an unexpected friendship with a superhero like no other Fearless even in the face of school bully extraordinaire Dagmar Hagen no good deed is too small for the incomparable Captain Superlative and her new sidekick Janey But superheroes hold secrets and Captain Superlative is no exception When Janey unearths what's truly at stake she's forced to face her own dark secrets and discover what it truly means to be a hero and a friend *Academy; a Weekly Review of Literature, Learning, Science and Art*, 1876 The Poetical gazette the official organ of the Poetry society and a review of poetical affairs nos 4 7 issued as supplements to the Academy v 79 Oct 15 Nov 5 Dec 3 and 31 1910 Scientific and Learned Societies of Great Britain, 1911 **Hunting Captain Ahab** Clare L. Spark, 2006 This highly acclaimed and provocative interdisciplinary study of the development of institutional censorship explores the complexities of 20th century American cultural politics through the protagonists of the Melville Revival Spark addresses the distinction between the radical and conservative Enlightenment and makes her way through Melville's often confusing and contradictory texts examining the disputes within Melville scholarship The Year-book of the Scientific and Learned Societies of Great Britain and Ireland, 1904 **The narrative of Captain Coignet ... 1776-1850, ed. by L. Larchey, tr. by Mrs. M. Carey** Jean Roch Coignet, 1897 **The Yearbook of the Scientific and Learned Societies of Great Britain and Ireland**, 1914 *Official Year-book of the Scientific and Learned Societies of Great Britain and Ireland*, 1914 *The captain's room* Sir Walter Besant, 1883 *The Lancet*, 1912 **Science** John Michels (Journalist), 1887 Vols for 1911 13 contain the Proceedings of the Helminthological Society of Washington ISSN 0018 0120 1st 15th meeting *Fire Engineering*, 1978 **An Introduction to the Study of Hinduism** Guru Prosad Sen, 1893 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1964 Includes Part 1 Number 1 Books and Pamphlets Including Serials and Contributions to Periodicals January June **The Journal of Education**, 1915 *Association Medical Journal*, 1918 British Medical Journal, 1918 **Notes and Queries**, 1896 *The Saturday Review of Politics, Literature, Science and Art*, 1872

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- Chapter 5: Conclusion

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