

THE STRUCTURE OF THE HEART

EXTERNAL FEATURES:

CARDIAC MUSCLE - dark red muscle

CORONARY ARTERIES - run on surface supplying heart with oxygenated blood. Restrictions of these may limit flow of O_2 + nutrients causing heart attack.

INTERNAL FEATURES:

ATRIA - receive blood from major veins. The left atrium receives oxygenated blood through P vein. The right atrium receives deoxygenated blood from the vena cava.

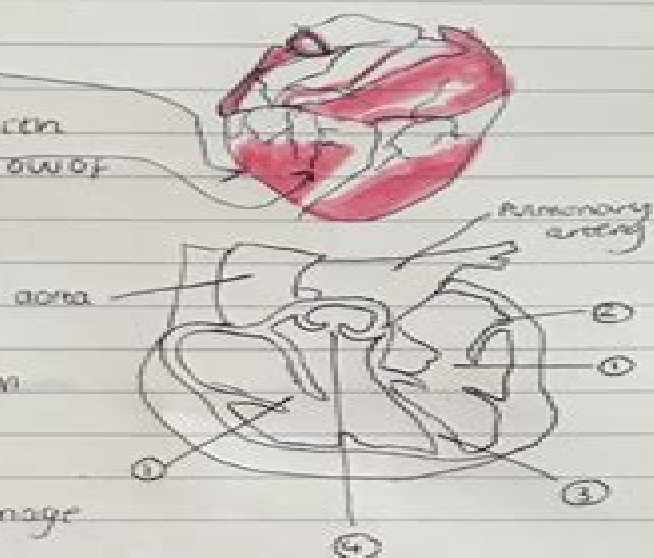
RIGHT VENTRICLE - Thicker walls than atria to pump blood to lungs; not too thick as very high pressure could damage lungs alveoli.

LEFT VENTRICLE - walls 2/3 x thicker than the right ventricle as blood must overcome systemic circulation + pump blood further round body.

- ① ATRIOVENTRICULAR VALVES - make sure blood flows into heart (in veins)
- ② TENOUS CHORDS - prevent valves from turning the other way when ventricle walls contract.
- ③ VENTRICULAR SEPTUM - separates ventricles keeping oxygenated / deoxygenated blood separate.
- ④ SEMILUNAR VALVES - (at back of aorta) stops blood flow back into heart.

CARDIAC MUSCLE STRUCTURE:

- have fibres which branch + form cross bridges to 1) spread the stimulus around the heart and 2) ensure the muscles produce a squeezing action rather than a reduction in length.
- muscle fibrils are called myofibrils + have mitochondria located between them to provide energy for contracting.
- Intercalated discs separate muscle cells + also coordinate synchronous contraction. Each cell is divided into sarcomeres.



As Biology A Level Revision Notes S

Frank Sochacki



As Biology A Level Revision Notes S:

Philosophy of Religion for AS Level Michael B. Wilkinson, Hugh N. Campbell, 2009-04-21 This comprehensive and easy to use textbook is endorsed by OCR for use with the Philosophy of Religion unit of the OCR AS Religious Studies specification
KEY FEATURES Co authored by experienced examiners Stretch and Challenge material for advanced students Timeline of philosophers Appendix on revision notes Each chapter includes essential new vocabulary with definitions extracts from primary texts examination tips discussion topics and practice exam questions suggestions for further reading Fundamental concepts covered include arguments for the existence of God including the Ontological Cosmological Moral and Teleological Arguments as well as challenges to faith from the Problem of Evil and other sources Background material from Ancient Philosophy and the Judaeo Christian tradition is explained and there are specially developed sections on Boethius and the Divine Attributes and Modern Science both new to the specification A particular feature of this book is substantial Stretch and Challenge material throughout which allows students to develop further

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Software for Teaching Science Roger Frost, 1998
British Books in Print, 1986
My Revision Notes: OCR A Level Biology A Frank Sochacki, 2017-01-16
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Elementary and Secondary Education for Science and Engineering ,1988 Spiny Lobster Explorations in the Pacific and Caribbean Waters of the Republic of Panama Johnny A. Butler, Norman L. Pease, 1965 **Disciplinary Convergence in Systems Engineering Research** Azad M. Madni, Barry Boehm, Roger G. Ghanem, Daniel Erwin, Marilee J. Wheaton, 2017-11-24 The theme of this volume on systems engineering research is disciplinary convergence bringing together concepts thinking approaches and technologies from diverse disciplines to solve complex problems Papers presented at the Conference on Systems Engineering Research CSER March 23 25 2017 at Redondo Beach CA are included in this volume This collection provides researchers in academia industry and government forward looking research from across the globe written by renowned academic industry and government researchers **Cambridge Academic English C1 Advanced Student's Book** Martin Hewings, Craig Thaine, Michael McCarthy, 2012-07-19 Gives students further practice in academic study skills Students analyse characteristics of written and spoken academic texts develop awareness of academic culture and learn to avoid plagiarism From essay organisation taking notes group discussion to writing references and paraphrasing texts **Nature Study in Schools** ,1899 **Ghana Teachers' Journal** ,1963 **Competition Science Vision** ,2001-11 Competition Science Vision monthly magazine is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India Well qualified professionals of Physics Chemistry Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to the point study material for aspiring candidates The magazine covers General Knowledge Science

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