HSC 2002 - Biology Band 3/4 - Sample 1 **Question 28** BOARD OF STUDIES Question 28 i) The function of the Organ of costs in hearing is allowing a) sound by pass via mechanorecteptors in the ear. ii) Relationship between wavelength, frequency + they all describe how far or loud sound can travel and they all interlink. (11) One of the Structures that animals use to produce sound is by the large which is also known as the voice box located near the trachea and behavioural communication of sound by echolocation, used in whale and dolphins they make noises that send signals to their species.

HSC 2002 - Biology Band 3/4 - Sample 1 **Question 28** BOARD OF STUDIES () i) The structural features of the cerebrum, cerebillum, medulla oblongata the student could use to identify each photograph correctly is description, speaking about the features and discussing their functions and whose they are situated. (erdenim ii) medulla Oblongata Cerebellum

HSC 2002 - Biology Band 3/4 - Sample 1 **Question 28** BOARD OF STEDIES (1 (3 on graph The velationship ketween thick lens and tocal length (1) 13 that with a thick transparent lens the focal length tends to be short in length as the lens is circular in shape and it very dense (iii) Accommodation is the process that allows us to tocurs on objects near and Far. This process is mainly controlled by the flattening and spherical shape The lens cuates to distinguish ad focus far ad dose objects. The lens flattens when focussing on far object and the opposite happens as ligaments in the eye tighten and create a spherical shape to focus on an object nearby.

BOARD OF STIDIES NEW SOUTH WALLS

d) The light signal reaching the retina is transformed electrochemical signals. The veting is found at the into back of the eye is the most important feature of the eye as it transmits the object to the optic nene to the brain where the brain "sees" the object ad it is sent back. Retina is composed with photoreceptor cello comes and rodo. Comes are photoreceptive all's that determine bright coloros and rods determine black and white dim woors. Light cales the setina the retina contains a progment called melanin to and eliminate the refraction of light. Dechochemical signals and travel until they reach the retine when light is refracted and this provokers a signal.

2002 HIGHER SCHOOL CERTIFICATE EXAMINATION Biology

Communication

This page is to be detached, completed and attached to the inside front cover of your writing booklet for the option question you have attempted.

