BAB 1

1.4 AKTIVITI PERBINCANGAN

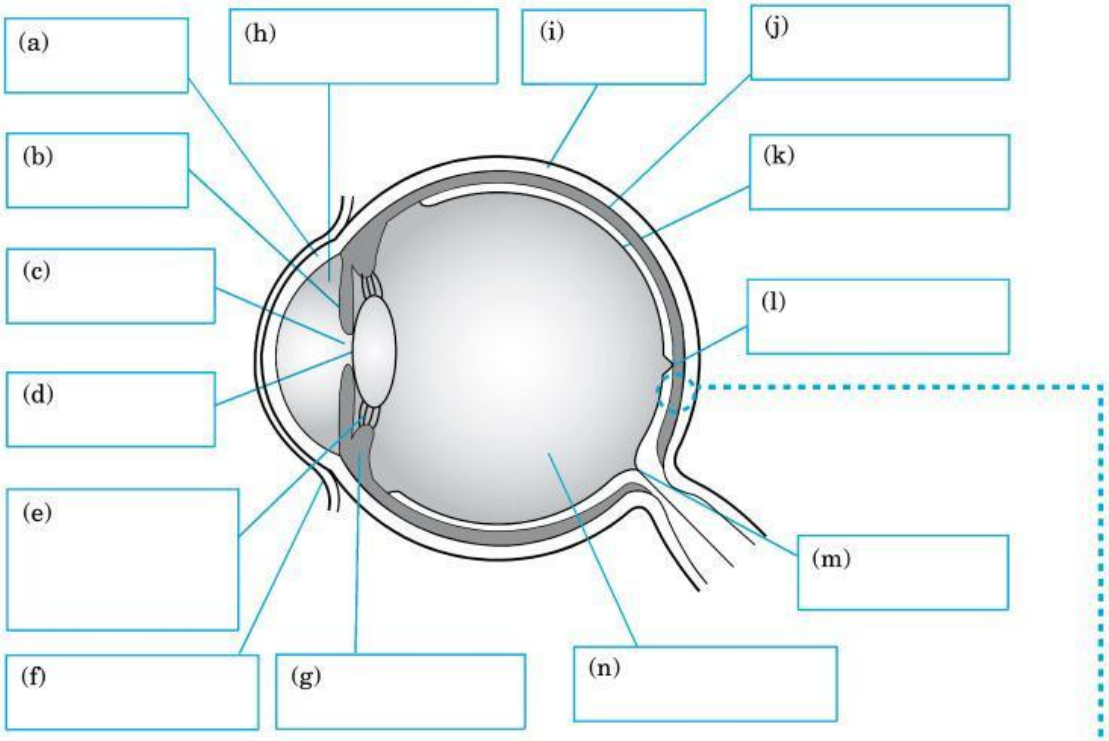
Struktur mata manusia dan fungsinya
Structure of the human eye and their functions

PBD
Masteri

Buku teks m/s 11 – 12

1 Labelkan struktur mata manusia./*Label the structure of the human eye.* TP1

Iris *Iris*	Koroid *Choroid*	Gelemair *Aqueous humour*	Kanta mata *Eye lens*	Bintik kuning *Yellow spot*
Sklera *Sclera*	Kornea *Cornea*	Gelemaca *Vitreous humour*	Otot silia *Ciliary muscles*	Bintik buta *Blind spot*
Retina *Retina*	Pupil *Pupil*	Konjunktiva *Conjunctiva*	Ligamen penggantung *Suspensory ligaments*	

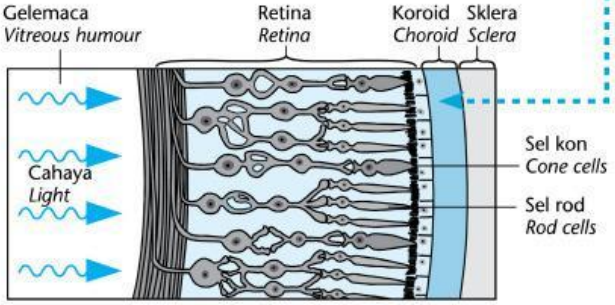


2 (a) Namakan **dua** fotoreseptor pada retina./*Name **two** photoreceptors on the retina.* TP1

_____

_____

(b) Apakah fungsi sel rod dan sel kon? TP2
What are the functions of the rod cells and the cone cells?



(i) Sel kon *Cone cells*	Peka kepada cahaya _____ dalam keadaan bercahaya. *Sensitive to _____ lights in bright condition.*
(ii) Sel rod *Rod cells*	Peka kepada _____ cahaya yang berbeza termasuk cahaya _____ tetapi tidak peka kepada cahaya _____. *Sensitive to different _____ of light including _____ light but not sensitive to _____ lights.*

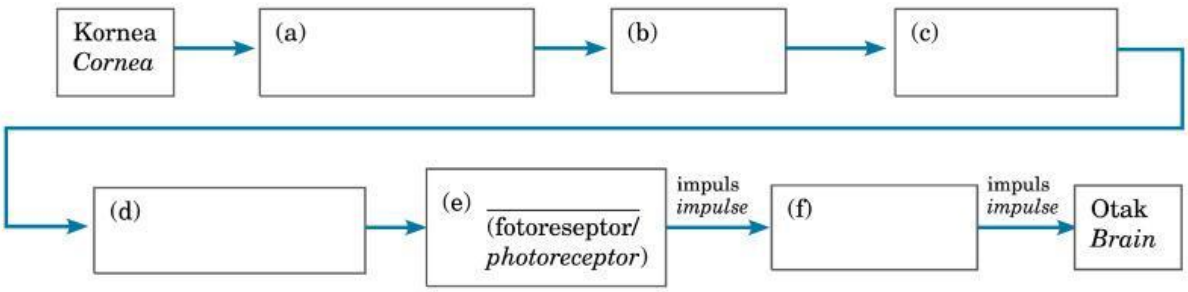
LIVEWORKSHEETS

3 Kenal pasti bahagian mata berdasarkan fungsinya. TP2
Identify the parts of the eye based on their functions.

Bahagian mata ***Parts of the eye***	**Fungsi** ***Functions***
(a)	Membran lut sinar yang melindungi kornea *Transparent membrane that protects the cornea*
(b)	Membias dan memfokuskan cahaya ke atas retina *Refracts and focuses light onto the retina*
(c)	Memfokuskan cahaya ke atas retina *Focuses light onto the retina*
(d)	Membenarkan cahaya memasuki mata *Allows light to enter the eye*
(e)	Mengawal saiz pupil *Controls the size of the pupil*
(f)	Mengubah ketebalan kanta mata *Change the thickness of the eye lens*
(g)	Memegang kanta mata *Hold the eye lens*
(h)	Mengekalkan bentuk mata dan membantu untuk membias serta memfokuskan cahaya ke atas retina *Maintains the shape of the eye and helps to refract and focus light onto the retina*
(i)	Melindungi dan mengekalkan bentuk mata *Protects and maintains the shape of the eye*
(j)	Mengelakkan pantulan cahaya dalam mata dan membekalkan oksigen serta nutrien kepada mata *Prevents reflection of light in the eye and supplies oxygen and nutrients to the eye*
(k)	Mengandungi fotoreseptor yang mengesan dan menghasilkan impuls saraf *Contains photoreceptors that detect light and produce nerve impulses*
(l)	Bahagian mata yang paling peka terhadap cahaya *The part of the eye that is the most sensitive to light*

Praktis Kendiri

4 Lengkapkan peta alir tentang laluan lintasan cahaya dalam mekanisme penglihatan manusia. TP2
Complete the flow map about the path of light in the human sight mechanism.



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