30 31 2 3 4	W T F S
16 17 11	1 12 13 14 15 8 19 20 21 22 5 26 27 28 20
16 1 78 11	1 2 8
Chapter - The Human eye	2 Qua
The Colours I die	MAL
the Colowful we	rug
12	
Eye works on expension of light the	ual.
Living material & enables us to see to	ma
lung material & enables us to see t	hing
2 around us	0
3 7he Human Me	
The Human ege	
The front past of the eye is called.	cornea
is foul wing outilized of the things	mce +
this corner into the eyes just licher	chroigh
comea is tris (or coloured diaphy any	
MI shaped managed	rano.
is called busil of the pure middle of iris	which
- The pupil depends black by	
suffected from it. since secause no light	itis
-> Egelens is a sett flexible soll litt mater	al o
Being flenible, eye lens gouy made	of protein
shope. I many	e us
eye less can change it och and to a	0440
2023 on selina	nu
To be idle requires a strong sense of	

SATURDAY

to corner also converges the light may coming into the eyes. Eye lins als only converges

Mind interperets the final image so erect

Functions of:-

(i) Luis - Controls amount of light entering the eye If amount of light is large, the iris contracts the pupil and if light is small, it will empound pupil. Adjustment of sine of pupil takes some time. This is the reason for dazzling vision when we leave a dark noom or enter a dark

ii) Rods and cones

Rods and romes

Rods are mod shaped cells present in

neting, which to are sensitive to dim light

Alet mocturnal animals (animals which

sleep during day & come out at night) like

16 SUNDAY ours have a large number of rod cells in

reting.

neting, which are sensitive to light light there are more in number than the Rod

AUGUST - 2023 TWTFSS WK 29 · 198-167 12 10 11 JULY 15 16 17 18 19 22 23 24 21 rells come cells causes sensation of colour. Occommodation Normal eye can see distant objects or well as nearby objects due to it's power of acominodation Ligaments are tight cellary merodo 2023

One of the most courageous things you can do is identify yourself

JULY as well as hearly objects by changing the focal length (or converging power) of a lens is called accompatition. * Normal human eye has a power of accommodation which enables objects of far as infinity las close as 25 cm to be focused on setura. For A farthest point from the eyed which object can be seen properly is for point of the eye * I Far point of normal human Eye is infinity. K Nearest point of normal human eye is called mear point, of an eye. * Near point of a normal human eye is 25 an be placed, so that normal human eye [heast distance of distinct vision]

AUGUST - 2023 WK 29 · 200-165 10 11 12 13 JULY 14 13 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 WEDNESDAY Defects of vision and their corrections Nyopia (Near Sightedness/short sightedness nyopia is that defect of vision blue to wh person cannot see distant object but a 2023 DULY 2023

20 WK 29 - 201-164

JULY

THURSDAY

front of a myopio eye is 80 cm in front of eye what is nature & power of lens required to correct the defed.

$$u = -\infty$$

 $V = -80 \text{ cm}$
 $V = -80 \text{ cm}$
 $V = -80 \text{ cm}$

$$\frac{1}{p} = -\frac{1}{90}$$

2023

Strength and growth come only through continuous effort

27 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 SATURDAY The angle between the initial path of the incident say & emergent ray is called dispersion of light. angle of deviation emergent way The borned of seven colorers is called found on a white screen, when a beam of white light is passed through a glass prism is called spectrum of white light. 23 SUNDAY 2023 Committing yourself is a way of finding your Identity

AUGUST - 2023 M T W T F S S WK 30 • 205-10	. 71
M T W T F S S WK 30 • 205-10 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 JUL JUL	24 MONDAY
on a glass prism, each covering of seven come a glass prism, each colour in it is by a different angle with the result that relover are spread out to form a spectra	refracted seven
> The red colour is deviated the least	
These colours in the order of increasing differ only in their frequencies.	
white light:	gue
Recombination of spectrum folours to white light The seven colours in the order of incre frequency weeks give back white light	easing
5 Patch of u	mite light
s Patch of a recombination white light of white light	
" white light	Sal Pala
- / Dispersion / Second	casochide
	- I
The state of the s	MARCH IN
	2023

25 WK 30 · 206 159

123	- 21					
9	P	T	W	T	M	S
-					31	30
8	7	6	5	4	3	2
15	14	13	12	11	10	9
22	21	20	19	18	17	16
20		27	26	25	24	23

The nainbow is an arch of seven colours vielle in the sky which is purpoliced by the dispersion of sun's light by raindrops in the atmosphere.

A rambon is produced by the dispersion of white light by Streamdrops in the atmosphere each raindrop acts as a tiny glass prison splitting the sunlight into a spectrum.

In the same atmosphere me have air layers having different optical densities

The refraction of light raused by the rorth atmosphere is called struspheric dispersion

some of the optical phenomena in nature which occur due to the atmospheric refraction of light

The trunkling of a star is due to the almosphic refraction of star's light.

M T W T F S S

1 2 3 4 5 6

7 8 9 10 11 12 13

14 15 16 17 18 19 20

21 22 23 24 25 26 27

28 29 30 31

The continuously changing atmosphoe is able to cause variations in light corning from a point sixed star because of which the dars appears to be truinkling.

The stars seem higher that they actually are

Due to atmospheris refraction, the , seems stars seem to be higher in Inversing the sky than they april density are. Burding aight from a star is repracted as it leaves space (a vaccum) + and enters the earth's atmosphere Air higher up in the sky is rarer but that nearer the earth's surface is denser.

Alue to this refraction of Star's light, the stars appears to be at a higher position.

ble can see the sun about 2 minutes before the actual envise and 2 minutes after the actual surest because of atmospheric regraction.

WK 30 * 208-157 JULY 11 12 13 17 19 26 20 THURSDAY The time from survise to synset is lengthened by about 2+2=4 minutes because of atmospheric regraction The human eye.