Q.1	What are the types of cl (A) Transverse	nromatic aberrations? (B) Longitudinal	(C) Linear	(D) Both a and b					
Q.2	 Choose the correct option from the following in regards to chromatic aberration. (A) The patient is confronted with red and green images (B) The patient is confronted with blue and green images (C) Chromatic aberration vastly is used during a brain test (D) Chromatic aberration vastly is used mainly see the color inside eyes 								
Q.3	In chromatic aberration of a convex lens (A)The image of straight object become wavy (B)The image of white object becomes colored and blurred. (C)Both a and b (D)None of the above								
Q.4	Which of the following quantity related to a lens depends upon the wavelength or wavelengths of								
	incident light?								
	(A)Power (C)Focal Longth		(D) All of the above						
	(C)FOCAI LEIIgUI								
Q.5	Calculate the focal length of one of the thin lenses if the resultant focal length is 5 cm, and one lenshas a focal length 10 cm used to minimize the chromatic aberration.(A)20 cm(B)15 cm(C)10 cm(D)30 cm								
Q.6	What will be the resultant focal length of the combination when a thin convex lens is kept in contact with a thin concave lens ?								
	(A) 0	(B) ∞	(C) $\frac{f}{2}$	(D) f					
Q.7	If both the lenses used f (A) Chromatic is remove (C) Data insufficient	for achromatic are of same	e material, then (B) Chromatic cannot be removed (D) None of these						
Q.8	Two lenses of focal lengths $+10$ cm and $+15$ cm are put in contact to form an achromatic combination the ratio of their dispersive power is.								
	(A) + $\frac{3}{2}$	(B) $-\frac{3}{2}$	(C) + $\frac{2}{3}$	(D) $-\frac{2}{3}$					
Q.9	The dispersive powers of the materials of two lenses forming an achromatic combination are in the ratio of 4: 3. Effective focal length of the lenses is +60 cm, then the focal lengths of the lenses should be								
	(A) - 2 cm, 25 cm	(B)20 cm, -25 cm	(L) -15 cm, 20 cm	(D)15 cm, -20 cm					
Q.10	The focal length of a convex lens made of flint glass is 15 cm. To remove its chromatic aberration, it is placed in contact with a concave lens made of crown glass. Find the focal length of the concave lens. The ratio of dispersive powers of flint glass lens to the crown glass lens is 1.5. (A)5 cm (B)30 cm (C)20 cm (D)10 cm								

ANSWER KEY

Q.	1	2	3	4	5	6	7	8	9	10
Sol.	(D)	(A)	(B)	(D)	(C)	(B)	(B)	(C)	(D)	(D)