Q.1	You are given two converging lenses of focal lengths 1.25 cm and 5 cm to design a compound microscope. If it is desired to have a magnification of 30, find out the separation between the object and the eyepiece.(A)7.5 CM(B)10 CM(C)5 CM(D)12.5 CM									
Q.2	eye piece is 3 cm. When	a compound microscope the focal length of an objective lens is 1.2 cm and the focal length of the ve piece is 3 cm. When the object is kept at 1.25 cm in front of the objective lens, the final image is rmed at infinity. Magnifying power of the compound microscope should be: A)400 (B)200 (C)150 (D)100								
Q.3	Focal length of objective lens and eyepiece of an astronomical telescope are 100 cm and 2 cm respectively. Find the angular magnification produced in the case of normal adjustment:(A)100(B)50(C)200(D)25									
Q.4	Find the magnifying power of a telescope, when the final image is formed at least distance of distinctvision. Focal length of used lenses is12.5 cm and 100 cm.(A)10(B)12(C)18(D)22									
Q.5	•	magnification produced b if the focal length of eyep <b>(B)</b> 50 cm		ope is 30. Find the focal <b>(D)</b> 250 cm						
Q.6	telescope. Reason: The objective lo <b>(A)</b> Both the Assertion a	ens of the telescope has sr nd reason are true and Re nd Reason are true and R t Reason is false.	nall focal length. eason is correct explanat							
Q.7	-	iew the moon. What is the is 12 cm and the size of th <b>(B)</b> 3.77°								
Q.8	0	oound microscope is 30. F ance of distinct vision. Fin <b>(B)</b> 7	0 1	s 5 cm and the final image is n objective lens. (D)3						
Q.9		of the objective lens of a c scope is 35, then the mag <b>(B)</b> 5		7. If the magnifying power piece will be - <b>(D)</b> 7						
Q.10	(A)Virtual, erect and ma	compound microscope, the image formed by the objective lens is -rtual, erect and magnifiedal, inverted and magnified(D)Virtual, erect and diminished								

## ANSWER KEY

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