

Q.1 Fill in the blank

1. Electromagnetic wave that can have a wavelength of 200 m.
2. Electromagnetic wave that has the highest frequency.
3. electromagnetic waves are all.
4. The speed of all electromagnetic waves in vacuum is.

Q2. Drop the box.

concave mirror	convex mirror	virtual	real	polarization
focus	transverse	equal	Huygen's	

1. image in a plane mirror is always
2. it is also called converging mirror,
3. it always produces a virtual, diminished, and upright image.....
4. when the object is placed on the center of curvature of a concave mirror, the image will have the same size and distance and it will be.....
5. No image is formed for an object placed on the Of a concave mirror.
6. angle of incidence must be to the angle of reflection.
7. separating light that is travelling in all directions into a light travelling in on plane is called
8. polarization can happen only for Waves, this is why sound waves cannot be polarized.
9. each point on a wave is a possible source of a new wave. This is the statement of principle.

Q3. Fill in the table for features of image in a concave mirror

no image
real, inverted, and diminished
virtual, upright, and magnified
real, inverted, and magnified
same size and distance, real and inverted

Location of object	Features of image
Between focus (f) and mirror	
On the focus	
Between focus and center of curvature (C)	
On the center of curvature	
Further then center of curvature	