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Distinguish between interference and diffraction phenomena.

Interference

i) For interference two coherent sources are needed.

ii) Interference fringes are of equal width and intensity.

iii) Due to two sources the general intensity of the interference fringes is more.

Diffraction

i) For diffraction different points of the same wave front produces diffraction.

ii) Diffraction bands are of decreasing intensity and width.

iii) Due to distribution of parts of intensity of one source, the bands are of less intensity.

strongly contrasted with greyish
brownish feathers above
and whitish below.
The upper parts are
brownish grey, the lower parts
white, with a few brownish
feathers on the sides.
The wings are brownish grey,
the feathers being
long and pointed.
The tail is long and deeply
notched, the feathers
being long and pointed.
The legs are strong and
the feet are large and
strong, with long toes.