**OPTO 416 MID-TERM EXAM 2-1436**

**Student name**………………………………….. **ID**………………………

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. **Briefly, describe the difference between optical illusion and Entopic phenomena?**
2. **Briefly, describe the difference between Movement and Figural After- Image effect?**
3. **What is Retinal Phosphenes phenomenon, with example of ocular diseases that can cause it?**
4. **Please indicate if the following sentences are True or false**
5. The intensity of objects color is independent from its background ( ).
6. Herman Grid Illusion result from inhibitory events in Ganglion receptive field ( ).
7. Schroeder’s Staircase and Rubin’s Vase result are incomplete (or inadequate) representations of the figures they are supposed to represent ( ).
8. Aerial Perspective occur because the proprioceptive mechanisms of that eye are unaware that the eye has moved ( ).
9. Moving of light source image in the same direction of the eye movements known as The Pulfrich Phenomenon ( ).
10. Haidinger’s Brushes and Maxwell’s Spot classified as an Optical Entopic phenomena( ) Optical illusion that result from scattering of light by atmosphere known as Aerial Perspective ( ).
11. Retinal pathologies consider as one of the main internal origin cause Phosphene phenomena ( ).
12. The frequency of TV waves, radio waves falls in ultraviolet region ( ).
13. Rod photoreceptors reduce in density toward the periphery of the retina ( ).
14. Color saturation can be controlled by changing the wavelength of the same color ( ).
15. All photoreceptors types can perceive different spectral hues ( ).
16. Rayleigh Match refers to matching all spectral hues above 520 nm using only red and blue colors ( ).
17. All wavelength hues within visible spectrum are matched by appropriate mixture of red, green and blue ( ).
18. Central of the retina is tritanopic area due to low concentration of M sensitive cones ( ).
19. Main source of physiological changes in color perception are caused by crystalline lens and macula ( ).
20. The compensatory rotation of the eye can maintain the full normal orientation of visual field caused by head tilting ( ).
21. Hallucinations and complete scenes in dreaming are not considered as Entopic Phenomena ( )