

**Model Paper “Science of Light and Colour” (First Semester)**  
**Diploma in Colour Therapy (01 Year Course)**  
**For Annual Examination 2024 & Onwards**  
**Semester: 1**

**Total Marks: 100**

**TIME: 03 Hours**

**Attempt any five questions. All questions carry equal marks.**

- Q.1.** (a) Explain the electromagnetic spectrum in detail. **10 marks**
- (b) Draw a table containing the range of wavelengths for each colour in the visible spectrum. **10 marks**
- Q.2.** (a) Explain how the human eye detects colour, particularly the role of the retina and retinal cones. **10 marks**
- (b) Describe the process by which the human brain interprets the frequencies of colours to form the human perception of an object. **10 marks**
- Q.3.** (a) Describe the therapeutic role of colours. **10 marks**
- (b) Compare colour therapy with gamma ray radiation therapy. **10 marks**
- Q.4.** (a) Describe the use of blue light in the treatment of neonatal jaundice. **10 marks**
- (b) What is aura and how is it affected by visible range radiation (Colours)? **10 marks**
- Q.5.** (a) Discuss the role of colours on melatonin and serotonin. **10 marks**
- (b) Explain how different wavelengths of light affect hormone production. **10 marks**
- Q.6.** (a) Describe the methodology for preparing water samples for hydro colour therapy. **10 marks**
- (b) What is kirlian photography. **10 marks**
- Q.7.** (a) Discuss the formations of hydration spheres in water molecules after exposure to colours. **10 marks**
- (b) What is ‘charge quantization’? **10 marks**