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B.Sc. (VCMT) - II SEMESTER

DIGITAL PHOTOGRAPHY TECHNIQUES

(VCU-104-V)

Time : 3 Hours] [Maximum Marks : 75

Instructions :

1. *It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.*
2. *Answer any four questions from Part-B in detail.*
3. *Different sub-parts of a question are to be attempted adjacent to each other.*

PART – A

1. (a) What is photography? Briefly explain the meaning of the term "Photography. (1.5)

   (b) What is the difference between film photography and digital photography? (1.5)

   (c) Define the term 'Exposure Triangle" in photography.(1.5)

   (d) What is Depth of Field (DoF)? (1.5)

(e) What is the difference between RAW and JPEG image formats? (1.5)

(f) What is White Balance in photography? (1.5)

(g) What is a Fisheye lens and when is it used? (1.5)

(h) What is Three-Point Lighting in photography? (1.5)

(i) What is the Rule of Thirds? (1.5)

(j) What is the difference between Optical Zoom and Digital Zoom? (1.5)

PART – B

2. (a) Trace the History and Evolution of Photography from its origin to the modern digital era. Discuss the major milestones. (10)

(b) Write short notes on any two types of cameras :

(i) DSLR.

(ii) Mirrorless Camera.

(iii) Pinhole Camera. (5)

3. (a) Explain the concept of Full Frame *vs.* Crop Sensor cameras. How does sensor size affect image quality? (5)

(b) Describe the Exposure Triangle in detail. How do Aperture, Shutter Speed, and ISO work together to produce a correctly exposed image? Give suitable examples. (10)

4. Explain in detail the different types of camera lenses used in photography. Discuss Standard, Wide Angle, Telephoto, Macro, and Fisheye lenses with their applications and characteristics. Also differentiate between Zoom and Prime lenses. (15)

5. (a) What are the different Camera Angles and Movements used in photography and videography? Explain with examples. (5)

(b) Describe the different types of shots used in photography (e.g., Extreme Wide Shot, Close-Up, Medium Shot, etc.). How does the choice of shot affect storytelling and composition? (10)

6. (a) Discuss the various types of lighting used in photography. Explain Natural Light, Artificial Light, Hard Light, and Soft Light with their advantages and suitable use cases. (10)

(b) What is a Light Meter? Explain Spot Metering and Center Weighted Metering modes. (5)

7. Write detailed notes on Flash accessories used in photography. Discuss : (i) Diffusers (ii) Reflectors (iii) Gels (iv) Soft Boxes (v) Umbrella Lights. Also explain creative lighting techniques such as High-Speed Flash Sync and Light Painting. (15)