16669

BRAINWARE UNIVERSITY

Term End Examination 2025-2026
Programme – B.Sc.(MSJ)-Hons-2024/B.Sc.(MSJ)-Hons-2025
Course Name – Introduction to Camera and Lighting
Course Code - BMJ17201 (T)
(Semester I)

Full Marks : 40 **Time : 2:0 Hours**

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A
(Multiple Choice Type Question) 1 x 10=10

1. *Choose the correct alternative from the following :*

(i) Illustrate how using a reflector can impact a photograph

a) It reduces glare
b) It adds color to the image
c) It bounces light onto the subject
d) It changes the lens focal length

(ii) Paraphrase the term "Chiaroscuro" in the context of lighting.

a) A technique to enhance contrast using shadows and highlights
b) A method for softening light
c) A setting for adjusting color balance
d) A type of continuous light source

(iii) Explain the function of the image sensor in a camera.

a) Captures light and converts it into an image
b) Stores images
c) Focuses the lens
d) Adjusts the aperture

(iv) Select the appropriate aperture for a landscape photo.

a) f/2.8
b) f/4
c) f/8
d) f/16

(v) Choose the correct aperture for a shallow depth of field.

a) f/2.8
b) f/8
c) f/16
d) f/22

(vi) Identify the effect of using a soft box on a light source.

a) Hardens the light
b) Softens the light
c) Reflects the light
d) Diffuses the light

(vii) Model the effect of ISO on image noise.

a) High ISO increases noise
b) Low ISO increases noise
c) High ISO decreases noise
d) Low ISO decreases noise

(viii) Explain the relationship between shutter speed and motion blur.

a) Faster shutter speeds reduce motion blur
b) Faster shutter speeds increase motion blur
c) Slower shutter speeds reduce motion blur
d) There is no relationship

(ix) Compare a high-key lighting ratio to a low-key lighting ratio.

a) High-key uses a higher lighting ratio
b) Low-key uses a higher lighting ratio
c) Both use the same ratio
d) Lighting ratios don't apply here

(x) Compare the primary difference between a DSLR and a mirrorless camera.

a) DSLRs have an optical viewfinder
b) DSLRs are smaller and lighter
c) Mirrorless cameras use a mirror
d) Mirrorless cameras cannot change lenses

Group-B

(Short Answer Type Questions) 3 x 5=15

2. Demonstrate how to adjust the ISO setting on a DSLR camera? (3)
3. Illustrate how the focal length of a lens affects the composition of a photo? (3)
4. Build a lighting setup using a 4:1 lighting ratio to create a dramatic effect in a portrait. (3)
5. Outline the steps for achieving a balanced exposure using the exposure triangle. (3)
6. Combine different framing techniques to create a more dynamic photograph. (3)

OR

Discuss the importance of perspective in photography and how it can be modified to change the viewer's experience. (3)

Group-C

(Long Answer Type Questions) 5 x 3=15

7. Demonstrate the effect of changing the ISO setting on the exposure and noise levels of an image when shooting in low-light conditions, and explain the trade-offs involved. (5)
8. Explain the different shooting modes available on a camera and their uses. (5)
9. Create a checklist for effective low light photography techniques. (5)

OR

Predict how the use of gels and filters can alter the final image outcome. (5)

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