



Library
Brainware University
398, Ramkrishnapur Road, Barasat
Kolkata, West Bengal-700125

BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – B.Sc.(MSJ)-Hons-2023

Course Name – Introduction to Camera and Lighting

Course Code - BMJ30002

(Semester III)

Full Marks : 60

Time : 2:30 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 15=15

1. Choose the correct alternative from the following :

(i) Summarize the difference between natural and artificial lighting in a photograph.

- | | |
|---|---|
| a) Natural lighting is always softer | b) Artificial lighting cannot be adjusted |
| c) Natural lighting changes based on the time of day; artificial lighting is consistent | d) Artificial lighting changes color throughout the day |

(ii) Summarize the advantages of using a mirrorless camera over a DSLR

- | | |
|--|---|
| a) Mirrorless cameras are heavier and bulkier | b) Mirrorless cameras generally have fewer lens options |
| c) Mirrorless cameras are lighter and more compact | d) Mirrorless cameras have slower autofocus |

(iii) Demonstrate the effect of changing the ISO setting on image brightness

- | | |
|---|---|
| a) Higher ISO makes the image brighter; lower ISO makes it darker | b) Higher ISO makes the image darker; lower ISO makes it brighter |
| c) ISO affects color saturation but not brightness | d) ISO has no effect on image brightness |

(iv) Illustrate the effect of using a wide aperture on depth of field.

- | | |
|---|--|
| a) Aperture does not affect depth of field | b) A wide aperture results in a deep depth of field |
| c) A wide aperture (low f-number) results in a shallow depth of field | d) A wide aperture causes the background to be more in focus |

(v) Infer why a camera with interchangeable lenses is preferred by professional photographers.

- | | |
|--|--|
| a) It simplifies camera use | b) It allows for greater flexibility in capturing different types of shots |
| c) It reduces the need for post-processing | d) It always results in higher resolution images |

(vi) What is the primary advantage of a mirrorless camera?

- | | |
|-----------------|------------------------|
| a) Smaller size | b) Better battery life |
|-----------------|------------------------|

- c) Simpler controls
d) Higher megapixels
- (vii) Which mode allows a photographer to control the aperture while the camera sets shutter speed?
a) Aperture Priority
b) Shutter Priority
c) Manual
d) Auto
- (viii) Show how using a faster shutter speed can impact sports photography.
a) Freezes motion
b) Blurs motion
c) No effect
d) Changes color
- (ix) Translate the term "bokeh" in photography.
a) Color effect
b) Background blur
c) Light exposure
d) Motion effect
- (x) Explain the significance of the "golden hour" in photography.
a) Creates shadows
b) Enhances colors
c) Reduces contrast
d) Increases complexity
- (xi) Identify the best shutter speed to freeze fast-moving action in sports photography.
a) 1/60 sec
b) 1/125 sec
c) 1/1000 sec
d) 1/250 sec
- (xii) Select the appropriate light modifier to soften harsh sunlight.
a) Diffusion Paper
b) Grid
c) Reflector
d) Snoot
- (xiii) Make use of an aperture of f/22 for what type of photography?
a) Portraits
b) Sports
c) Landscapes
d) Action shots
- (xiv) Develop a plan for using a reflector in a portrait shoot. What is its main function?
a) Soften light
b) Bounce light
c) Block light
d) Focus light
- (xv) Make use of a lighting ratio of 5:1 for what type of effect?
a) High contrast
b) Low contrast
c) Flat lighting
d) Even lighting

Group-B

(Short Answer Type Questions)

3 x 5=15

2. How can you apply different shutter speeds to capture motion creatively? (3)
3. Model a lighting setup that uses umbrellas for even, soft illumination. (3)
4. Select the best light modifier to create a soft, natural light in outdoor portrait photography. (3)
5. Contrast high key lighting with low key lighting in terms of mood. (3)
6. Construct a practical guide for beginners on how to choose between different camera types based on their requirements. (3)

OR

Design an interactive exercise that illustrates how different camera components (lens, sensor, shutter) work together to capture an image. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. How does composition play a role in enhancing the impact of a photograph, and what techniques can be used? (5)
8. Formulate a plan for using reflectors to manipulate natural light during a midday shoot. (5)
9. Choose the appropriate lighting modifiers for a commercial shoot focusing on shiny products. What would you select? (5)

10. Experiment with various shutter speeds and light sources to capture light trails at night. How would you approach this? (5)
 11. Illustrate the impact of a softbox on reducing harsh shadows when photographing portraits. (5)
 12. Compile a list of essential camera settings for achieving proper exposure in manual mode (5)
- OR**
- Create a lighting plan for an outdoor portrait session where natural light changes rapidly. (5)

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