Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

**End Semester Examination – April/May– 2017**

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| **Code :** | **14VC2054** | **Duration :** | **3hrs** |
| **Sub. Name :** | **LIGHTING FOR DIGITAL VIDEO** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| Q. No. | Sub Div. | Questions | Course  Outcome | Marks |
| 1. |  | Elaborate on the features of the following lights:  i). HMI Lights (5 Marks) ii). Xenon Lights (3 Marks)  iii). Tungsten Fresnels (4 Marks) iv). Pars (3 Marks)  v). Ballon Lights (3 Marks) vi). Ballasts( 2Marks) | CO2 | 20 |
| (OR) | | | | |
| 2. | a. | Define and elaborate the inverse square law. | CO2 | 10 |
| b. | Define Cosine law in lighting and illustrate with suitable example. | CO2 | 7 |
| c. | Explain the color rendering index. | CO2 | 3 |
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| 3. | a. | i). A 1-K softbox is used as a key and a 650-W fresnel is used as a backlight and a 300-W fresnel is used as a fill light. Calculate the amps required in an Indian home?  ii)Can you plug them into a single-branch outlet that runs from a 10-amp breaker?  iii). But you need more light on the wall behind the subject;  could you add another 650 W to the circuit, Calculate the amps required? | CO3 | 12 |
|  | b. | Write a critical analysis on the lighting as storytelling and draw the lighting pattern for the **Picture 1**: (frame is taken from the movie Black , 2005)  light1 | CO3 | 8 |
| (OR) | | | | |
| 4. | a. | Suggest the appropriate lighting for the given script below.  **Read the SCRIPT carefully from the Movie The God Father II :**  **INT. MICHAEL-KAY'S BEDROOM – NIGHT**  The room is lit from a small night lamp on Michael's side of the large bed.  Kay is huddled in blankets, asleep. Michael closes the door to his room, moves to his side of the bed, and glances down to the pillow.  **VIEW ON THE PILLOW**  is a child's drawing of a long limousine, with a man in a hat sitting in the back seat.  An arrow pointing to him is marked "DAD." Under it, a nine year old's handwriting says: "Do you like it? Check YES \_\_ I liked it or NO \_\_ I didn't like it." Michael turns, looking for a pencil, and moves to the dresser, where he places a check next to "YES."  He starts to cross back toward his side of the bed, when Kay  turns, almost in her sleep:  **KAY**  Michael? Why are the drapes open?  His eyes dart back to the curved, beautifully leaded windows of the room. The DRAPES are opened. Then, without a second's hesitation, he leaps to the floor, still holding his son's drawing, as a spray of machine gun bullets sweep across the windows; glass shattering all over the room.  Kay screams out; rising, still half-asleep. Michael crawls toward her, and pulls her down to the floor to him.  Then, for a moment, there is silence, soon filled by the shouts of men; as flashes of light sweep by the window, as guards with flashlights come running.  Michael holds Kay to him, knowing they have both survived, and then gently:  **MICHAEL**  Go with the kids. | CO3 | 8 |
|  | b. | Draw the clear and neat lighting pattern of the suggest lighting. | CO3 | 6 |
|  | c. | Name the lights required and calculate the approximate watts and amps required for the scene. | CO3 | 6 |
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| 5. | a. | Write a short notes on the following:  i). Incident meter ii). Spot Meter iii). Light Meter | CO2 | 12 |
|  | b. | Identify the usage of CTO and CTB conversion filter situation. | CO2 | 8 |
| (OR) | | | | |
| 6. |  | Define working principle of DMX controller. | CO1 | 20 |
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| 7. |  | Discuss the influence of Film Noir in film making with process appropriate examples. | CO2 | 20 |
| (OR) | | | | |
| 8. |  | “Every element, every color, every shadow is there for a purpose and its part in the visual and storytelling scheme has been carefully thought out.”- justify the statement with appropriate examples. | CO3 | 20 |
|  | | **Compulsory:** |  |  |
| 9. |  | Describe Zone system in lighting techniques. | CO2 | 20 |

ALL THE BEST