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



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

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

**Supplementary Examination – June – 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. | 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 |
| (OR) | | | | |
| 2. | a. | Write a short notes on the following:  i). Incident meter ii). Spot Meter iii). Light Meter | CO2 | 12 |
| b. | Elaborate on the conversion of CTO and CTB filters. | CO2 | 8 |
| 3. |  | Discuss the influence of Film Noir in film making with appropriate examples. | CO2 | 20 |
| (OR) | | | | |
| 4. |  | “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 |
| 5. | 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 a slash of light on the wall behind the subject;  could you add another 650 W to the circuit, Calculate the amps required? | CO3 | 12 |
|  | b. | Define the following:  a. Volts b. Amperes. c. Lux d. Foot candles | CO3 | 8 |
| (OR) | | | | |
| 6. |  | Elaborate on Zone system in lighting techniques. | CO2 | 20 |
| 7. |  | Give a detailed explanation of working principle of DMX controller. | CO1 | 20 |
| (OR) | | | | |
| 8. | a. | Write the measure to be followed in lighting Green/ Blue matte. | CO3 | 12 |
|  | b. | Write a short notes on dimmer. | CO3 | 8 |
|  | | **Compulsory:** |  |  |
| 9. |  | Elaborate on the features of the following lights:  i). HMI Lights (7 Marks)  ii). Xenon Lights (3 Marks)  iii). Tungsten Fresnels (4 Marks)  iv). Pars (3 Marks)  v). Ballon Lights (3 Marks) | CO2 | 20 |