THE OPEN UNIVERSITY OF SRILANKA
DEPARTMENT OF COMPUTER SCIENCE
B.SC. (IT) DEGREE PROGRAMME 2024/2025
FINAL EXAMINATION
ITU5303 – MULTIMEDIA DESIGN AND TECHNOLOGY
DURATION: TWO HOURS ONLY (02 HOURS)

DATE: 21.06.2025	TIME: 1.30 pm – 3.30 pm

Answer **FOUR (04)** Questions **ONLY**. All questions carry equal marks. (25 Marks)

Q1.

   i.   Identify and explain the key components of Multimedia.

   ii.   State four (4) multimedia authoring tools.

   iii.   Briefly describe the following terms.

        a) HTML

        b) XML

        c) SMIL

   iv.   What is multimedia authoring? Briefly describe.

Q2.

   i.   State four (4) graphics and image editing tools.

   ii.   Discuss the role of multimedia presentations in conveying information and engaging audiences.

   iii.   Discuss the differences between Adobe Photoshop and Adobe Illustrator.

   iv.   Briefly explain the differences between Multimedia and Hypermedia.

Q3.

   i.   State five (5) key concepts used in VRML.

   ii.   Discuss the characteristics of the Windows BMP image format.

   iii.   Discuss the importance of image processing in the enhancement and manipulation of images.

   iv.   What is multimedia broadcasting? Briefly describe.

Q4.

 i. State four (4) color matching functions.

 ii. Discuss the key components of camera systems, including the lens, image sensor, and image processing.

 iii. Describe the following terms.

  a) GIF

  b) JPEG

  c) TIFF

 iv. What are the five (5) major color matching techniques used in image processing?

Q5.

 i. What are the key considerations when selecting an editing and authoring tools for multimedia projects?

 ii. Explain the concept of digital video signals.

 iii. Describe the following terms.

  a) HTML Canvas

  b) Adobe Director

  c) Adobe XD

 iv. What is Netpbm Format?

Q6.

 i. What is a pixel in the context of an image?

 ii. Describe the following terms.

  a) Dithering

  b) 1 – bit images

 iii. List and briefly discuss about four (4) multimedia authoring metaphors.

 iv. Discuss the significance of Adobe Premiere in video editing. What features make it a preferred choice for professionals in the industry?

-End of Examination Paper-