



UGANDA BUSINESS AND TECHNICAL EXAMINATIONS BOARD

Business and Humanities Certificate Examinations

MAY-JUNE 2024 SERIES

PROGRAMME

NATIONAL CERTIFICATE IN INFORMATION AND COMMUNICATION
TECHNOLOGY

PAPER NAME

COMPUTER GRAPHICS AND PHOTO EDITING

PAPER CODE

NCIT122

YEAR I, SEMESTER II

2½ HOURS

MONDAY, 20TH MAY, 2024

INSTRUCTIONS TO CANDIDATES

1. This paper consists of **two** practical questions.
2. A candidate is required to answer only **one** question.
3. Create a folder in your name and registration number on the desktop where you shall save your work.
4. Transfer all your work in the folder to a new blank compact disk (CD) at the end of the examination.
5. Internet and software help wizards are **not** allowed.
6. Only use images provided on the **CD** by UBTEB for this examination.
7. **Do not** write on the question paper.

Question One

You have been hired by Zoom Fashion Designs to create a Web and User Interface (UI) Design for their homepage using Adobe Photoshop. They have provided you with a sample design and five images to include in your design. Your task is to create visually appealing layouts and mockups that align with Zoom Fashion Designs' branding and aesthetics.

Additional information:

- i. *Set workspace as 1280 x 1024 pixel.*
- ii. *Design with Adobe Photoshop CC.*
- iii. *Use only images provided.*
- iv. *Design with desired colors accordingly.*

Required:

- (a) Set Up the Canvas with the following;
 - (i) Create a new Photoshop document with appropriate dimensions for the homepage *as 1280 x 1024pixel.* (02 marks)
 - (ii) Set the resolution to 72 DPI and color mode to RGB. (02 marks)
 - (iii) Ensure your canvas size is optimized for web design. (02 marks)
- (b) Import Sample Design and Images to design accordingly.
 - (i) Import the provided sample design into your Photoshop document. (02 marks)
 - (ii) Incorporate all five images into your design while maintaining their original quality and aspect ratio. (04 marks)
 - (iii) Organize layers and name them accordingly. (04 marks)
- (c) Implement the Mood board Integration as follows;
 - (i) Implement the mood board elements from the provided sample into your design. (04 marks)
 - (ii) Adjust colors, textures, or patterns to match the chosen mood board. (04 marks)
 - (iii) Ensure cohesiveness between the mood board and your layout. (04 marks)
- (d) Design with Typography and Text Elements as below;
 - (i) Select appropriate fonts for headings, subheadings, and body text. (04 marks)
 - (ii) Add and format text elements, including a menu, headings, and sample content. (04 marks)

- (iii) Ensure readability and consistency in typography throughout the design. (04 marks)
- (e) Design a Layout Composition
- (i) Arrange the sample design, images, and text elements to create an aesthetically pleasing homepage layout. (04 marks)
 - (ii) Utilize grids or alignment tools for a balanced composition. (04 marks)
 - (iii) Pay attention to visual hierarchy and focal points. (04 marks)
- (f) Image Manipulation and Enhancement
- (i) Apply necessary adjustments to the provided images, such as resizing, cropping, or applying filters. (04 marks)
 - (ii) Ensure that the images seamlessly integrate into your design and enhance the visual appeal. (04 marks)
 - (iii) Maintain a consistent style and color tone. (04 marks)
- (g) Design Interactive Elements
- (i) Add interactive elements like buttons, hover effects, and navigation menus to your design. (04 marks)
 - (ii) Demonstrate user interactivity in your mockup (e.g., button hover state). (04 marks)
 - (iii) Ensure that interactive elements are visually appealing and functional. (04 marks)
- (h) Design a mockup for Responsiveness;
- (i) Create a separate mockup for the mobile version of the homepage. (04 marks)
 - (ii) Adjust the layout and elements to ensure responsiveness for smaller screens. (04 marks)
 - (iii) Showcase how your design adapts to different screen sizes. (04 marks)
- (i) Export as JPG and HTML;
- (i) Save your Photoshop design as a high-resolution JPG image. (04 marks)
 - (ii) Create an HTML file that includes the JPG image, maintaining the overall layout and design. (04 marks)
 - (iii) Ensure that the HTML file is properly structured and includes necessary tags. (04 marks)

Print the final copy.

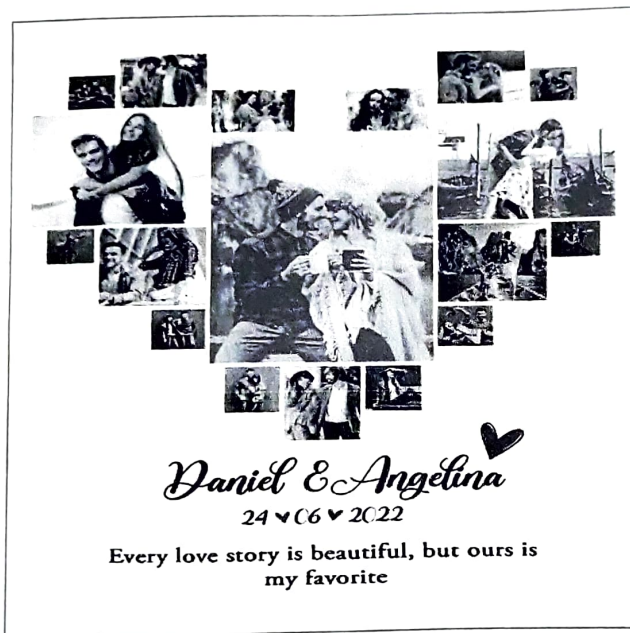
Question Two

You're hired by BIROZO PHOTO STUDIO to create a photo collage for Danson and Angela's anniversary.

Additional information:

- i. Set workspace as 794 x 993 pixel.
- ii. Design with Adobe Photoshop CC.
- iii. Use only images provided.
- iv. Design with desired colors accordingly.

Sample design



Required:

Task 1: Project Brief and Image Review.

- (a) Review the project brief provided by BIROZO PHOTO STUDIO to understand the client's preferences and expectations. (05 marks)
- (b) Evaluate the sample design and images provided by the studio to get a sense of the desired style. (05 marks)

Task 2: Image Selection and Curation.

- (c) Select a set of images from Danson and Angela's photo collection that best represent their relationship and special moments. (05 marks)

- (d) Ensure the chosen images align with the sample design and theme. (05 marks)

Task 3: Canvas Creation.

- (e) Create a new canvas in Photoshop with the appropriate dimensions and resolution for the photo collage. (10 marks)

Task 4: Background Design.

- (f) Design a background for the collage that complements the sample design and enhances the overall visual appeal. (10 marks)

Task 5: Image Placement and Composition.

- (g) Arrange the selected images on the canvas in an aesthetically pleasing and balanced composition, following the sample design as a guide. (10 marks)

Task 6: Image Editing and Enhancement.

- (h) Apply image editing techniques, such as color correction, cropping, and retouching, to enhance the quality of the selected photos. (10 marks)

Task 7: Text and Captions.

- (i) Add text elements, including the couple's names, anniversary date, and meaningful captions, using fonts and styles that match the sample design. (10 marks)

Task 8: Effects and Filters.

- (j) Apply appropriate filters, effects, or overlays to unify the images and create a cohesive visual style, consistent with the sample design. (10 marks)

Task 9: Review elements of design and design principles.

- (k) Design the anniversary collage following the design principles. (05 marks)
(l) Design the anniversary collage following the design elements. (05 marks)

Task 10: Finalization and Delivery.

- (m) Prepare the final collage for delivery in the desired format, whether it's for printing, digital display, or both. (05 marks)
(n) Ensure the file is correctly formatted, with the right resolution and color profile, and hand it over to BIROZO PHOTO STUDIO for presentation to the clients. (05 marks)

END