



The University of Fiji
(An Entity of Arya Pratinidhi Sabha of Fiji)



SCHOOL OF SCIENCE AND TECHNOLOGY
Semester 1: Year 2024

FINAL EXAMINATION PAPER

**ITC221: COMPUTER APPLICATION IN ART AND
DESIGN**

Important Instructions to Students:

1. Read the questions, instructions carefully and answer the questions.
2. You are allowed an **extra 10 minutes reading time** (during this time, you are not allowed to write with pen) and **180 minutes (3 Hours) to complete this paper**.
3. Silent, non-programmable calculators are allowed, but not supplied.
4. Write all your answers in the answer booklet provided. If you need extra sheets, please ask from the supervisor. Write your name, course code and student identification number in the answer booklet and in the attendance sheet.
5. **This Final Course Examination Paper is worth 100 marks contributes 50% of the total course assessments.** Students must **at least score 40%** in this final exam to pass the course.
6. This paper contains two (2) sections A and B. All questions are compulsory.
7. Write all your answers legibly. The marker has the right to award zero for answers that are not legible.
8. This is a **Closed Book Examination**. The University views plagiarism, cheating and dishonest practice as serious offences and if found, offenders are penalized.

Examination Paper Content (Format):

<u>Section</u>	<u>Question</u>	<u>Content</u>	<u>Marks</u>	<u>Suggested Time</u>
A	1- 30	Multiple Choice	30	54 minutes
B	1- 23	Open Ended Questions	70	126 minutes
		TOTAL	100	180 Minutes

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Write the question number and the letter which represents the **most** appropriate answer for each question in the answer booklet.

1. A black-and-white photograph of a scene eliminates the hues and intensities of the scene's colors, but captures the _____ of the colors.
 - a. pigments
 - b. chromas
 - c. harmonies
 - d. values
2. Pressing and holding (Shift) when drawing with the rectangle tool creates _____.
 - a. a perfect rectangle
 - b. a square
 - c. a diamond shape
 - d. a duplicate rectangle
3. According to recent research, Stonehenge _____.
 - a. serves as a calendar, measuring out the year
 - b. is a sun-worshipping monument
 - c. is a relatively modern monument to the English monarchy.
 - d. marks a graveyard and possibly a religious complex
4. If you click the Illustrator direct selection tool on a path of an object, the anchor points _____.
 - a. disappear
 - b. appear hollow
 - c. are all selected
 - d. none of the above
5. When talking about the proportions of an image such as 1000x1000 the _____ is first number and the _____ is second number.
 - a. height, width
 - b. width, height
 - c. weight, width
 - d. height, weight
6. What is a master page used for in InDesign?
 - a. Editing images
 - b. Applying consistent design elements
 - c. Creating animations
 - d. Adjusting text formatting
7. What does the Layers panel in Illustrator primarily allow users to do?
 - a. Adjust color settings
 - b. Organize and manage artwork elements
 - c. Apply effects to objects
 - d. Change document properties

8. The Modify submenu in the Select menu contains all of the following commands except ____.
- Border
 - Smooth
 - Content
 - Expand
9. How can you add page numbers to an InDesign document?
- Using the Text Tool
 - Using the Paragraph Panel
 - Applying a master page
 - Importing an image
10. The ____ tool in the Vanishing Point dialog box is used to clone part of an image onto another part of the image while maintaining proper perspective when using Photoshop.
- clone tool
 - stamp tool
 - create Plane tool
 - none of the above
11. Although Vincent van Gogh suffered emotionally throughout his life, he was able to give his emotions tangible form in works such as ____.
- Hound.
 - Bird in Space
 - Venus.
 - The Starry Night.
12. Which file format preserves the editability of a multilayered Photoshop file?
- bmp
 - psd
 - jpg
 - mov
13. What does the Pathfinder panel in Illustrator primarily assist users in doing?
- Adjusting image resolution
 - Creating 3D effects
 - Combining and manipulating shapes
 - Applying text formatting
14. To preview an animation, you can use the playback controls at the ____ of the Animation panel.
- left
 - bottom
 - right
 - top
15. If you've accidentally added a point to an area you didn't intend while using the magnetic lasso tool, how can you remove that unintended point?
- Press delete
 - Press Escape
 - Press Backspace to delete
 - Press Backspace and delete

16. Anti-aliasing is not available with the ____ tool.
- Rectangular Marquee
 - Magnetic Lasso
 - Magic Wand
 - Polygonal Lasso
17. Which tool in InDesign allows you to place text inside a shape?
- Type Tool
 - Pen Tool
 - Rectangle Frame Tool
 - Eyedropper Tool
18. Which tool in Illustrator is primarily used for creating and editing vector shapes?
- Brush Tool
 - Pen Tool
 - Eraser Tool
 - Eyedropper Tool
19. The sculptor Constantin Brancusi spent his life searching for forms that were _____
- simple and pure
 - pure and exciting
 - timely
 - all of the above
20. What does the Links panel in InDesign display?
- Font information
 - Page thumbnails
 - Placed images and files
 - Text attributes
21. Jim Hodges' Every Touch is composed of _____
- Television monitors
 - automobile parts.
 - petals of artificial flowers.
 - discarded furniture.
22. The appreciation of a work of art can be enhanced greatly by knowing _____
- how it was made.
 - why it was made.
 - its place in art history.
 - all of these.
23. In painting and drawing, artists often use the technique of _____ to describe the way shadows and light define the mass of forms.
- refraction
 - spatial organization
 - chiaroscuro
 - simultaneous contrast

24. A necessary feature of pattern is _____.
a. texture.
b. color.
c. repetition.
d. vanishing points.
25. Which workspace layout in Illustrator is specifically designed for creating and editing vector illustrations?
a. Essentials
b. Typography
c. Painting
d. Tracing
26. To add a drop shadow to text you would _____.
a. Select the drop shadow tool from the tools menu
b. Drag your layer to the drop shadow icon at the bottom of the layers window
c. Select Layer > Layer Styles > Drop Shadow
d. Select Layer > Add Drop Shadow Text
27. Computer graphics that are created using lines and fills defined by mathematical equations are called _____.
a. vector graphics
b. bitmap graphics
c. resolution dependent
d. polygon graphics
28. Which panel in Illustrator provides options for selecting and manipulating individual anchor points of a path?
a. Swatches
b. Properties
c. Pathfinder
d. Direct Selection
29. Assume that the U.S. flag is on the Background layer and that the Background Layer is white. If you use the Eraser Tool to erase the blue background where the stars are in the flag, to what color are the pixels changed?
a. gray
b. White
c. Blue
d. red
30. Painting medium that shares the same quality of both watercolor and oil paints is _____.
a. gouache
b. tempera
c. Mixtec
d. encaustic

Answer ALL the questions from this section in the answer booklet provided.

1. Many writers and teachers have tried to understand what makes someone creative. Even though it's hard to explain exactly what creativity is, most people agree that creative folks usually have eight special qualities. Elaborate on these eight traits commonly associated with creativity? *(4 marks)*
2. In visual design, we have two main concepts: content and form. These concepts break down into two processes: thinking up ideas (conceptual) and making them real (production). Using an example, describe the five steps involved in the conceptual process. *(4 marks)*

3. Use Figure 1 to answer the following questions:

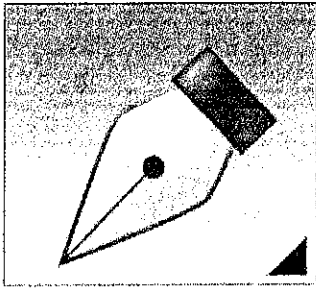


Figure 1: Tool Icon

- a. Given the name of the tool in Figure 1. *(1 mark)*
 - b. Explain thoroughly the purpose of this tool. *(1 mark)*
 - c. Discuss the advantages of this tool over the Marquee tools. *(1 mark)*
 - d. What is the significance of the black triangle in the lower right corner of this tool icon? *(1 mark)*
4. Explain the purpose of shield when using the crop tool on an image in an image editor? *(2 marks)*
 5. When does the magnetic lasso tool perform it best? *(1 mark)*
 6. What happens with the pixels of a graphic when you scale it? *(2 marks)*
 7. Discuss the differences between Art and Design. *(2 marks)*
 8. As you embark on your graphic design journey, you encounter the concepts of raster and vector graphics. Explain the disparity between these two types of graphics? Furthermore, discuss the advantages and disadvantages of utilizing raster and vector graphics, respectively, in your design projects? *(4 marks)*
 9. There are several methods available for eliminating the background from an image using an image editing program? Discuss how you will go about using at least two of these methods. *(2 marks)*
 10. Discuss the difference between a stroke and a fill in Illustrator? *(2 marks)*

11. You've been tasked with creating a custom map illustration for a travel guidebook project. The map needs to be visually appealing and distinct, capturing the essence of each destination with unique elements. You have been asked to create and use custom brushes in your map to enhance the visual appeal of your design. Explain the steps involved in creating a custom brush in Illustrator? *(4 marks)*
12. Shape can be designed in different ways. Discuss, compare and contrast the realistic and distorted ways of designing shape. *(2 marks)*
13. With help of an example explain how the Photoshop patch tool works? *(5 marks)*
14. Explain how you would go about creating an animated gif using Photoshop. Discuss the steps involved. *(6 marks)*
15. When we mention that certain individuals possess good taste, it often implies that they possess a deeper understanding of the principles of design and their practical application in various situations. Provide a comprehensive explanation of what constitutes to the principles of design? *(4 marks)*
16. Discuss at least three components of Photoshop interface. *(3 marks)*
17. Compare and contrast symmetrical and asymmetrical balance in design. *(2 marks)*
18. Discuss the two basic systems of colors: additive and subtractive. *(2 marks)*
19. Explain the difference between making a layer active and making a layer visible. *(2 marks)*
20. Compare and contrast GIF, JPEG and PNG file formats. *(3 marks)*
21. With help of an example explain Gestalts Theory of Visual Perception. *(4 marks)*
22. A color scheme is a set of colors arranged to create visual harmony or interest in a design or artwork. Utilizing the traditional color wheel, there are four fundamental color schemes: Monochromatic, Analogous, Complementary, and Triadic. Provide a detailed explanation of any two of these schemes. *(2 marks)*
23. As an aspiring digital artist, you've just started working on a complex illustration project in Photoshop. You've imported several images and graphics into your composition, and now you're faced with the challenge of managing the different elements effectively to achieve the desired outcome. Amidst your creative process, you realize the importance of understanding layers and layer masks in Photoshop. Thoroughly explain the purpose of layers and layer masks, and provide a step-by-step guide on how to use layer masks? Additionally, give an example to illustrate its practical application in digital art? *(4 marks)*

End of Exam

