



Dezyne École College
B.Voc Graphic Design – 1st Semester
Digital tools - Probable University Questions

1. Define a digital computer. How does it differ from an analog computer?
2. List and briefly describe the basic components of a digital computer system.
3. Explain the role of input and output devices in a computer.
4. What is the difference between system software and application software?
5. Differentiate between hardware and software with suitable examples.
6. What are the main sub-modules of a computer's hardware? Explain any three.
7. Describe the function of the CPU and how it interacts with memory.
8. Compare general-purpose computers and dedicated machines with examples.
9. What are workstations? How are they different from personal computers?
10. Write a short note on various computing platforms (desktop, server, embedded, mobile).
11. What is an Operating System? State its major functions.
12. Distinguish between BIOS and firmware.
13. What are system utilities? Give examples and their purposes.
14. Explain the booting process of a computer and the role of BIOS in it.
15. List types of application software and give suitable examples.
16. Differentiate between vector and pixel image formats. Provide examples of each.
17. List common image file formats and explain their ideal use cases (e.g., JPEG, PNG, GIF, TIFF).
18. What is file compression? Explain the difference between lossy and lossless compression with examples.
19. Compare raster and vector image formats in terms of scalability and file size.
20. Explain the advantages and disadvantages of using JPEG format for digital images.
21. What are bitmap images? Describe their key properties.

22. Explain the terms: image resolution, monitor resolution, and resolution for printing.
23. How do you calculate the pixel dimensions needed for printing a 6×4 inch photo at 300 DPI?
24. What is the impact of low-resolution images when printed? Explain with an example.
25. Define PPI and DPI. How are they different and where are they used?
26. What is pixelation? When and why does it occur in digital images?
27. Define interpolation. How is it used in image resizing?
28. Describe three different interpolation methods used in image scaling.
29. Explain resolution for display with examples of common screen resolutions.
30. How does monitor resolution affect image clarity?
31. Explain how the RGB color model works in digital displays.
32. Differentiate between RGB and CMYK color models. Which is used for printing and why?
33. What is greyscale? How is it different from black-and-white?
34. Describe the HLS color model and its components.
35. What is a color palette? Name and describe different types of color palettes.
36. What is a graphics package? Give examples of vector-based and raster-based graphic software.
37. Compare the features of Adobe Illustrator and Photoshop.
38. Describe the main differences between AI, SVG, and EPS file formats.
39. What are the advantages of using vector formats for logo design?
40. Identify and explain three bitmap image formats used in web design.
41. Differentiate between bitmap and vector images in Photoshop.
42. What is the purpose of the Layers Panel in Photoshop?
43. Define a mask and its function in image editing.
44. Mention two selection tools in Photoshop and their uses.
45. What does the File Browser allow you to do in Photoshop?
46. Name any two basic photo correction tools.
47. What is the use of the Eyedropper Tool in digital painting?
48. List two differences between Speed Painting and Matte Painting.
49. How can a user customize a brush in Photoshop?
50. State one benefit of using Adjustment Layers over direct editing.
51. Explain how to use the Clone Stamp Tool and Healing Brush for retouching.

52. Describe the use of Layer Masks with an example.
53. How can the Brush Settings Panel be used to create a custom brush?
54. Discuss the steps to correct color and lighting using Levels and Curves.
55. What are channels in Photoshop, and how do they relate to color modes?
56. Explain the basic steps of preparing a digital painting workspace in Photoshop.
57. How can selection tools be combined for complex object selection?
58. What are Matte Paintings, and how are they used in digital art?
59. What is the use of the Pen Tool in Photoshop?
60. Define a Vector Mask. How is it different from a Layer Mask?
61. What is the purpose of Smart Objects in Photoshop?
62. Explain the use of the "Clipping Mask."
63. Name two types of layer effects used for creating special effects.
64. What is the standard resolution for preparing an image for print?
65. Differentiate between RGB and CMYK color modes.
66. Mention any two benefits of using Adjustment Layers.
67. What is a "Path" in Photoshop?
68. What does "non-destructive editing" mean?
69. Explain the steps to create a custom shape using the Pen Tool.
70. Describe the process of converting a path into a selection and applying it.
71. List and describe any three layer blending modes with examples.
72. How can you create a glow effect using layer styles? Explain with steps.
73. Describe how to prepare a Photoshop file for professional printing.
74. What is the function of the Paths Panel? How do you manage paths in it?
75. How are Smart Objects useful when applying filters?
76. Explain the use of "Bleed" and "Safe Zone" in print design.
77. Create a vector-based shape using the Pen Tool and demonstrate how to apply a vector mask using it. Explain each step.
78. Design a small poster and apply the following:
 - A glow effect on text
 - Smart Object for one image .
 - Use of adjustment layers for color correction

Save the document for print with 300 DPI and CMYK mode.

79. Demonstrate how to use clipping masks and adjustment layers to correct and enhance a photo creatively.

80. Explain how you would create a lighting or shadow effect using layer styles, blending modes, and brushes.

81. Discuss the complete workflow of preparing a Photoshop project for professional printing, including resolution, color, bleed, file formats, and proofing.

82. What is the primary difference between early social media and modern social media platforms? 2. Name two early social media platforms and their key features.

83. Define the term “presentation paper” in the context of social media.

84. List any two current trends in social media content design.

85. What is a content calendar and why is it important in social media planning?

86. Name two software tools used for creating social media graphics.

87. What role does graphic design play in modern social media marketing?

88. What is the ideal image format and resolution for Instagram posts?

89. What does the term "visual identity" mean in the context of social media design?

90. Mention any two performance metrics used to evaluate social media campaigns.

91. Create a mock social media campaign presentation paper for a product launch. Include:

- Target audience
- Visual content plan
- Platform strategy
- Design samples
- Performance metrics