**Question 1**  Explain what is the main difference(s) between page layout for printed document and page layout for websites.

**Ans** Here is the Difference between printed and web page layout

Printed document = static

More control over the aesthetics, optimization of space = graphic design and artistic skills

Multimedia + web = dynamic => requires more various skills

Example : websites elements need to be variable in size, scale and shape; may need to swap contents or for it's style to be personalized; some of them may use motion design, and needs to take navigation between contents in consideration, etc.

**Question 2** Based on the image above, identify the page layout style used (circle your answer).

**Ans** This is frame layout showed in the image.

**Question3** How can title elements (headings, etc.) help layout, cognitive ergonomics and readability?

**Ans** Headings are standard features of technical documents that serve several important functions:

* Provide organizational overview of the document
* Show logical development of ideas
* Show hierarchical relationship of ideas (headings, sub-headings)
* Allow the reader to scan and read selectively
* Increase readability of the document by providing breaks and white space.

**Question4**  Briefly explain what is the F shape layout?

**Ans** Based on psychometric studies + suitable for a wide range of websites

The eyes move across a page in an F-shape pattern

Often offers a detailed vertical menu on the left side (especially efficient for pages containing a lot of content)

**Question5** In design, when we are talking about the golden ratio (the Divine proportion) what are we talking about and what is this approximate ratio?

**Ans** The Golden Ratio is a mathematical ratio you can find almost anywhere, like nature, architecture, painting, and music. When specifically applied to design specifically, it creates an organic, balanced, and aesthetically pleasing composition

The Golden Ratio is often represented by Phi. Its approximate value is 1.61803

**Question 6** Briefly explain what is a layout grid?

**Ans** A grid is an intersecting set of horizontal and vertical lines – one set defining columns, and the other, rows. Elements can be placed onto the grid, within these column and row lines. CSS grid layout has the following features.

**Question** 7 Name the parts of the following layout grid identified by letters.

**Ans (a) column (b) column gap**

**Question 8** Briefly explain what is a modular grid.

**Ans** A modular grid is a grid which has consistent horizontal divisions from top to bottom in addition to vertical divisions from left to right. Modular grids are created by positioning horizontal guidelines in relation to a baseline grid that governs the whole document. Baseline grids serve to anchor all (or nearly all) layout elements to a common rhythm.

**Question 9** Why is it more flexible to use a 12 or 16 columns grid for page layout?

**Ans** normally we use 12 column for page layout because its easy to break with 6 ,4,3 or 2.

If we want to use 16. This is not breakable with odd number like 3 , since it is not perfectly divisible.

**Question 10** the available space below, write the CSS properties and values needed to create a class that, applied to a container, would make it a 960px wide 12 columns grid with a 1rem gutter (centered horizontally)

**Ans** .grid

{

display: grid;

grid-template-columns: repeat(12, 1fr);

grid-width:100%;

grid-margin: auto;

}

**Question11** The the available space below, write the CSS properties and values needed so a tag would span over 12 columns.

**Ans** header {

grid-column: span 12;

}