

Ex/PRN/PC/B/T/211/2024(S)

**B.E. PRINTING ENGINEERING SECOND YEAR FIRST SEMESTER**

**SUPPLEMENTARY EXAM - 2024**

**DIGITAL TYPESETTING**

Time: Three hours

Full Marks: 100

Answer Any **Five** Questions

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|---|----|
| 1. a) Classify memory devices.  | 14 |
| b) Explain a logical paragraph.   | 2  |
| c) How an optical mouse functions?  | 2  |
| d) Write the distinguishing features of Indian language alphabets those influence the keyboard layout design. | 2  |
| 2. a) Describe the keyboard technologies.   | 10 |
| b) Compare DDR and DDR2.  | 5  |
| c) Write the components of touch screen systems.  | 3  |
| d) Compare POWR and ICR.  | 2  |
| 3. a) Classify input devices.   | 10 |
| b) Write the features of printers, plotters etc as output device  | 4  |
| c) Write the features of phonetic keyboards.  | 3  |
| d) Elucidate surface acoustic wave touch-screen technology.   | 3  |
| 4. a) Explain the 'blocking of records', for magnetic tape in details.  | 6  |
| b) Write the principles of Dvorak Simplified Keyboard layout design.  | 5  |
| c) Tabulate the principal advantages and disadvantages of each of touch screen technology.                    | 4  |
| d) Write the factors on which the accuracy of optical mouse depends.  | 5  |

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|----|---|----|
| 5. | a) Describe the generations of photo-typesetting systems.                       | 8  |
|    | b) Write a short note on CD.  | 6  |
|    | c) Describe the hyphenation and justification processes.                        | 4  |
|    | d) Write the configuration of 6 pin MiniDIN.                                    | 2  |
| 6. | a) Classify output devices.   | 12 |
|    | b) Describe a hard disk.  | 6  |
|    | c) Write the benefits of optical mouse over wheeled mouse.                      | 2  |
| 7. | a) Classify interfaces for RAM and USB.   | 7  |
|    | b) Explain different kinds of spacing used in digital text composition.         | 6  |
|    | c) Explain the general features of storage devices.                             | 5  |
|    | d) Compare SDR SDRAM and DDR SDRAM.   | 2  |
| 8. | a) Explain Fowler Nordheim tunneling.   | 4  |
|    | b) Write the advantages of flash memory over hard disk.                         | 4  |
|    | c) Elucidate the confusing terms 'leader and ellipsis', 'tilde and swung dash'. | 4  |
|    | d) Write the role of CR, LF and FF in text composition.                         | 4  |
|    | e) Explain different kinds of text alignments.                                  | 4  |