

B.E. PRINTING ENGINEERING SECOND YEAR FIRST SEMESTER EXAMINATION, 2025

DIGITAL TYPESETTING

Time: Three hours

Maximum Marks: 100

Answer Any **Five** Questions

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| 1. | a) Write the benefits of optical mouse over wheeled mouse. | 2 |
| | b) Classify memory devices. | 14 |
| | c) Write the configuration of 6 pin MiniDIN. | 2 |
| | d) Write the distinguishing features of Indian language alphabets those influence the keyboard layout design. | 2 |
| 2. | a) Describe a hard disk. | 6 |
| | b) Classify output devices. | 12 |
| | c) Explain a logical paragraph. | 2 |
| 3. | a) Explain the 'blocking of records', for magnetic tape in details. | 6 |
| | b) Describe the generations of photo-typesetting systems. | 8 |
| | c) Tabulate the principal advantages and disadvantages of each of touch screen technology. | 4 |
| | d) How an optical mouse functions? | 2 |
| 4. | a) Explain Fowler Nordheim tunneling. | 4 |
| | b) Classify input devices. | 10 |
| | c) Write the features of phonetic keyboards. | 3 |
| | d) Elucidate surface acoustic wave touch-screen technology. | 3 |

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| 5. | a) | Write the principles of Dvorak Simplified Keyboard layout design. | 5 |
| | b) | Describe the keyboard technologies. | 10 |
| | c) | Write the components of touch screen systems. | 3 |
| | d) | Compare POWR and ICR. | 2 |
| 6. | a) | Explain different kinds of spacing used in digital text composition. | 6 |
| | b) | Write the factors on which the accuracy of optical mouse depends. | 5 |
| | c) | Describe the hyphenation and justification processes. | 4 |
| | d) | Compare DDR and DDR2. | 5 |
| 7. | a) | Write a short note on CD. | 6 |
| | b) | Classify interfaces for RAM and USB. | 7 |
| | c) | Explain the general features of storage devices. | 5 |
| | d) | Compare SDR SDRAM and DDR SDRAM. | 2 |
| 8. | a) | Explain different kinds of text alignments. | 4 |
| | b) | Write the features of printers, plotters etc as output device | 4 |
| | c) | Write the role of CR, LF and FF in text composition. | 4 |
| | d) | Write the advantages of flash memory over hard disk. | 4 |
| | e) | Elucidate the confusing terms 'leader and ellipsis', 'tilde and swung dash'. | 4 |