

BACHELOR OF PRINTING ENGINEERING EXAMINATION, 2017(1st year-2nd Semester)**DIGITAL TYPESETTING** Time: Three hours

Maximum Marks: 100

Answer Any **Five** Questions

1. a) Write a short note on CD. 6
- b) Describe the generations of photo-typesetting systems. 8
- c) Explain Fowler Nordheim tunneling. 4
- d) How an optical mouse functions? 2
2. a) Describe a hard disk. 6
- b) Classify output devices. 12
- c) Write the benefits of optical mouse over wheeled mouse. 2
3. 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) Tabulate the principal advantages and disadvantages of each of touch screen technology. 4
- d) Compare DDR and DDR2. 5
4. 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

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| 5. | a) | Explain a logical paragraph. | 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 |
| 6. | a) | Describe the hyphenation and justification processes. | 4 |
| | b) | Classify input devices. | 10 |
| | c) | Write the features of phonetic keyboards. | 3 |
| | d) | Elucidate surface acoustic wave touch-screen technology. | 3 |
| 7. | a) | Explain the 'blocking of records', for magnetic tape in details. | 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) | Elucidate the confusing terms 'leader and ellipsis', 'tilde and swung dash'. | 4 |
| | b) | Write the advantages of flash memory over hard disk. | 4 |
| | c) | Write the role of CR, LF and FF in text composition. | 4 |
| | d) | Explain different kinds of text alignments. | 4 |
| | e) | Write the features of printers, plotters etc as output device | 4 |