| Total No. of Questions: 8] SE | EAT |
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| SEAT No.: | |
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| [Total | No. of Pages : 2 |

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[6003]-358 T.E. (Computer Engineering) IGMENTED AND VIRTUAL REALITY

| | AUGMENTEDANDVIRTUAL REALITY | D \ |
|---------------|---|---------------------|
| | (2019 Pattern) (Semester-II) (Elective - II) (310254] | B) |
| Time: 2 | ½ Hours] [Max | . <i>Marks</i> : 70 |
| Instructi | ions to the candidates: | |
| 1) | Solve Q.1 or Q.2, Q.3 Q.4, or Q.5 or Q.6, Q.7 or Q.8. | |
| 2) | Neat diagrams must be drawn wherver necessary. | |
| 3) | Figures to the right indicate full marks. | |
| Q1) a) | What is rendering system? Describe different methods of aural | rendering. [6] |
| b) | Explain geometric based rendering system in detail? | [6] |
| c) | Differentiate between aural and haptic representation in Virtual OR | reality.[6] |
| Q2) a) | Describe haptic rendering methods in detail. | [6] |
| b) | to pass between simulation and haptic rendering. Explain ar | ny three in |
| | detail. | [6] |
| c) | How to render complex haptic scenes with force displays? | |
| Q3) a) | What are the four categories of substance in the virtual world? | Explain. [6] |
| b) | What is Wayfinding? Enlist real and virtual-world aids to wayfinding in navigation. | o improve [6] |
| c) | State side effects of using VR System. OR | [6] |
| Q4) a) | State and explain different forms of manipulating a virtual wor | ld. [6] |
| b) | What is Direction Selection? Enlist seven ways of selecting di | rection.[6] |
| c) | What is collaborative interaction? Explain. | [6] |
| | | P.T.O. |

