



PAPER ID-311124

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Subject Code: KOT053

Roll No:

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BTECH**(SEM V) THEORY EXAMINATION 2023-24****WEARABLE COMPUTING, MIXED REALITY AND INTERNET OF EVERYTHING****TIME: 3 HRS****M.MARKS: 100****Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A****1. Attempt all questions in brief.****2 x 10 = 20**

Q no.	Question	Marks	CO
a.	List the Different kind of Microcontrollers.	2	1
b.	Write the basic working process of Sensor.	2	1
c.	Discuss the types of software with example.	2	2
d.	Explain the concept of Open framework.	2	2
e.	Explain the term Cybernetics.	2	3
f.	How IoT help in the concept of Smart Cities?	2	3
g.	Define Internet of Things with example.	2	4
h.	Discuss the basic concept of Wearable Computing.	2	4
i.	Write short note on Internet of Everything.	2	5
j.	Differentiate between internet of things and internet of everything.	2	5

SECTION B**2. Attempt any three of the following:****10x3=30**

a.	Briefly discuss the history of microcontrollers and their creative coding platforms.	10	1
b.	Differentiate between Analog and Digital Signals. Explain the working of Analog to Digital conversion.	10	2
c.	Explain the basic fundamental of Advance Integrated Circuit Interfacing Techniques.	10	3
d.	Write all the issues arises on the implementation of Augmented Reality Concept.	10	4
e.	How the concept of Internet of Everything help in the future concept of Smart Cities? Explain.	10	5

SECTION C**3. Attempt any one part of the following:****10x1=10**

a.	Write the Different kind of Sensors used in Microcontroller and its use.	10	1
b.	Define Interface. How interface provide the bridge between user and hardware? Explain.	10	1

4. Attempt any one part of the following:**10x1=10**

a.	Discuss the Process of Serial UART Communication and its architecture.	10	2
b.	Differentiate Between Serial and Parallel Communication and its interfaces in detail.	10	2



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(SEM V) THEORY EXAMINATION 2023-24

WEARABLE COMPUTING, MIXED REALITY AND INTERNET OF EVERYTHING

TIME: 3 HRS

M.MARKS: 100

5. Attempt any *one* part of the following:

10x1=10

a.	How devices are in communication with Serial Peripheral Interface? Explain.	10	3
b.	Explain the concept of Humanistic Intelligence in Augmented Reality with example.	10	3

6. Attempt any *one* part of the following:

10x1=10

a.	Define Sensor. Explain the wireless sensor network integrated with wearable Computing.	10	4
b.	Define Roaming. Explain the architecture of Free Roaming Augmented Reality.	10	4

7. Attempt any *one* part of the following:

10x1=10

a.	Discuss about the future prospective of Wireless Sensor Network with IoE.	10	5
b.	Discuss all the challenges on the implementation of Internet of Everything in Smart Cities.	10	5