VIVEKANAND EDUCATION SOCIETY'S
INSTITUTE OF TECHNOLOGY

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AN AUTONOMOUS INSTITUTE AFFILIATED TO UNIVERSITY OF MUMBAI

Mid Term Test

Examination : Winter / Summer _____

Year: 2025 Semester: VII Branch: INFT Division: D20C

Name of the Student: Shweta wadhwa Roll No. 58

Subject: IOE Date : 9/9/25

Name & Signature of the Supervisor Vidya P

Question No. 1						Q. No. 2		Q. No. 3		Total Marks (Out of 20)	Signature of Examiner
a	b	c	d	e	f	a	b	a	b		
2	-	2	1½	2	2	3½	-	-	4½	18/20	16/9/25

Q1)

a) RFID works same as ADC which is automatic data collection.

② In automatic data collection the data is collected through wired medium with very less or no human contact.

③ RFID works same as ADC just wirelessly with the help of radio frequency.

④ The radio ~~wa~~ frequency waves helps to reader the information hidden in the tag.

⑤ The radio waves emit request. It is then ~~the~~ the request is given to the tags. After this they process it and pass it to the RFID reader. The RFID reader processes the information required and send it back as respone. Basically the reader gets the ~~re~~ requested data.

⑥ RFID has various types of tags based on ~~energy~~ namely active tags, passive tags, semi-active tags and ~~pas~~ semi-passive tags.

~~(7) Ba~~

(7) Basically, when ~~th~~ on toll the reader reads the tag (fast-tag) from that it gets the information it needs. ~~so the radio waves~~

Application of DHT

(1) DHT can be used in foo smart farming to check the moisture of the soil and the temperature.

(2) DHT is also used in smart cities for detecting the rain precipitation ~~from~~ and temperature.

c) The need of EDGE, FOG and cloud (we) computing was for following reasons-

(1) Low latency-

As the sensor senses then sometimes it needs quick action such as in case of a vehicle ahead, it needs to press brakes so if we depend on cloud level computing, it will take lot of time to process hence the latency increases. So edge, fog, cloud levels are important where edge level also process immediatly and take suitable actions.

(2) Bandwidth -

If every perception sensed is sent to cloud then bandwidth was wasted. Some prossing can also be done at the lower levels so as to ~~secure~~ not waste bandwidth. sensors generate hudge amount of data and if every data is sent then bandwidth would be wasted.

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