

VU Medical Zone

BT 505 QUIZ NO 1 FALL 2020

BT505:Quiz No1

sec(s)
Quiz Start Time: 04:26 AM, 21 December 2020

Question # 1 of 10 (Start time: 04:26:02 AM, 21 December 2020)

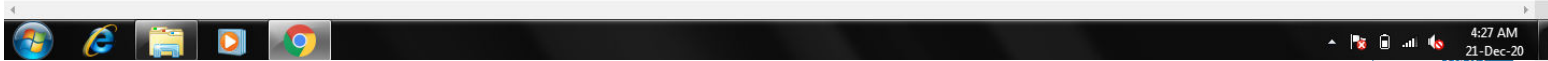
Total Marks: 1

Which of the following enzyme catalyze reactions that transfer functional groups within a molecule so that isomeric forms are produced -----?

Select the correct option

☒	Isomerase	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Hydrolase	
☐	Ligase	
☐	Kinase	

 Click to Save Answer & Move to Next Question



BT505:Quiz No1

Quiz Start Time: 04:26 AM, 21 December 2020

Question # 2 of 10 (Start time: 04:27:34 AM, 21 December 2020)

Total Marks: 1

The analyte that can be detected from biosensor could be a -----?

Select the correct option

☐	Molecule	
☐	Pathogen	
☐	Toxin	
☒	All of these	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com

 Click to Save Answer & Move to Next Question



EFFORT BY AMAAN KHAN

VU Medical Zone

BT505:Quiz No1

Quiz Start Time: 04:26 AM, 21 December 2020

Question # 3 of 10 (Start time: 04:28:44 AM, 21 December 2020)

Total Marks: 1

Which of the following enzyme use glucose as substrate in Glucose sensor -----?

Select the correct option

☐	Glucose Oxidase	
☐	Glucose Dehydrogenase	
☐	Glucose isomerase	
☒	Both A & B	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



BT505:Quiz No1

Quiz Start Time: 04:26 AM, 21 December 2020

Question # 4 of 10 (Start time: 04:29:52 AM, 21 December 2020)

Total Marks: 1

The minimum amount of analyte that can be detected by a biosensor defines its _____.

Select the correct option

☐	Linearity	
☐	Stability	
☐	Precision	
☒	Sensitivity	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



EFFORT BY AMAAN KHAN

VU Medical Zone

BT505:Quiz No1

Quiz Start Time: 04:26 AM, 21 December 2020

Question # 5 of 10 (Start time: 04:31:09 AM, 21 December 2020)

Total Marks: 1

The minimum amount that a biosensor can detect is defined as its -----?

Select the correct option

☒	Selectivity	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com	
☐	Limit of Detection		
☐	Reproducibility		
☐	Biocompatibility		



Click to Save Answer & Move to Next Question



BT505:Quiz No1

Quiz Start Time: 04:26 AM, 21 December 2020

Question # 6 of 10 (Start time: 04:32:31 AM, 21 December 2020)

Total Marks: 1

_____ is the ability of the biosensor to generate identical responses for a duplicated experimental set-up.

Select the correct option

☒	Reproducibility	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com	
☐	Selectivity		
☐	Linearity		
☐	Sensitivity		

Click to Save Answer & Move to Next Question



EFFORT BY AMAAN KHAN

VU Medical Zone

BT505:Quiz No1

Quiz Start Time: 04:26 AM, 21 December 2020

Question # 7 of 10 (Start time: 04:33:03 AM, 21 December 2020)

Total Marks: 1

Features of biosensors are

Select the correct option

☐	Bio-receptors	
☐	Transducers	
☐	Signal processors	
☒	All	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



BT505:Quiz No1

Quiz Start Time: 04:26 AM, 21 December 2020

Question # 8 of 10 (Start time: 04:33:17 AM, 21 December 2020)

Total Marks: 1

A transistor that uses an electric field to control the shape and hence the conductivity of channel of one type or charge carrier in a semiconductor material is called _____.

Select the correct option

☒	Field Effect Transistor	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Darlington Transistor	
☐	Schottky Transistor	
☐	Multiple-Emitter Transistor	

Click to Save Answer & Move to Next Question



EFFORT BY AMAAN KHAN

VU Medical Zone

BT505:Quiz No1

Quiz Start Time: 04:26 AM, 21 December 2020

Question # 9 of 10 (Start time: 04:33:44 AM, 21 December 2020)

Total Marks: 1

Which of the following best describe the sensitivity of biosensor -----?

Select the correct option

☐	Respond to Analyte	
☐	Respond to per unit	
☐	Identical response	
☒	Both A & B	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



BT505:Quiz No1

Quiz Start Time: 04:26 AM, 21 December 2020

Question # 10 of 10 (Start time: 04:34:53 AM, 21 December 2020)

Total Marks: 1

What are main characteristics of Biosensor

Select the correct option

☐	Ability to display	
☒	Stability and linearity	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Adjustability	
☐	Temperature control	

Click to Save Answer & Move to Next Question



EFFORT BY AMAAN KHAN

VU Medical Zone

BC170406488: MIRZA USSAMA HUSSAIN

Time Left 33 sec(s)

BT505:Quiz No1

Quiz Start Time: 01:23 AM, 22 December 2020

Question # 1 of 10 (Start time: 01:23:19 AM, 22 December 2020)

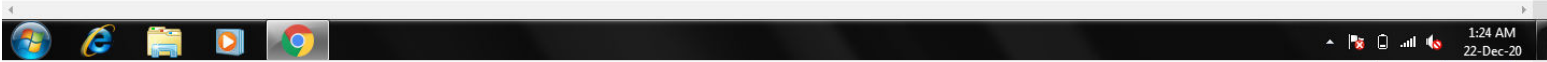
Total Marks: 1

A part of biosensor that processes the transduced signal and prepares it for display is called_____.

Select the correct option

☐	Bioreceptor	
☐	Electronincs	
☐	Transducer	
☒	Display	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



BC170406488: MIRZA USSAMA HUSSAIN

Time Left 74 sec(s)

BT505:Quiz No1

Quiz Start Time: 01:23 AM, 22 December 2020

Question # 2 of 10 (Start time: 01:25:01 AM, 22 December 2020)

Total Marks: 1

All of the following factors are involved in affecting the stability of biosensor-----?

Select the correct option

☐	Temperature	
☐	Humidity	
☐	pH	
☒	All of the above	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



EFFORT BY AMAAN KHAN

VU Medical Zone

BC170406488: MIRZA USSAMA HUSSAIN

Time Left 84 sec(s)

BT505:Quiz No1

Quiz Start Time: 01:23 AM, 22 December 2020

Question # 3 of 10 (Start time: 01:25:29 AM, 22 December 2020)

Total Marks: 1

----- is the ability of a biosensor to obtain identical response for duplicate experimental setup?

Select the correct option

☐	Selectivity	
☐	Limit of Detection	
☐	Linearity	
☒	Reproducibility	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



BC170406488: MIRZA USSAMA HUSSAIN

Time Left 67 sec(s)

BT505:Quiz No1

Quiz Start Time: 01:23 AM, 22 December 2020

Question # 4 of 10 (Start time: 01:25:43 AM, 22 December 2020)

Total Marks: 1

In context of receptors in living cells, flow of ----- ions play an important role in vision?

Select the correct option

☒	Na ⁺	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	K ⁺	
☐	Ca ²⁺	
☐	All of above	

Click to Save Answer & Move to Next Question



EFFORT BY AMAAN KHAN

VU Medical Zone

BC170406488: MIRZA USSAMA HUSSAIN

Time Left 84 sec(s)

BT505:Quiz No1

Quiz Start Time: 01:23 AM, 22 December 2020

Question # 5 of 10 (Start time: 01:26:23 AM, 22 December 2020)

Total Marks: 1

Factor that affects the stability of a measurement is _____ of the bio-receptor over a period of time.

Select the correct option

☐	Temperature	
☒	Affinity	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Electrostatic force	
☐	Degradation	

Click to Save Answer & Move to Next Question



BC170406488: MIRZA USSAMA HUSSAIN

Time Left 86 sec(s)

BT505:Quiz No1

Quiz Start Time: 01:23 AM, 22 December 2020

Question # 6 of 10 (Start time: 01:26:37 AM, 22 December 2020)

Total Marks: 1

The Blood glucose Biosensor is a good example of _____.

Select the correct option

☐	Optical Biosensor	
☐	Electrochemical Biosensor	
☒	Amperometric Biosensor	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	SPR Biosensor	

Click to Save Answer & Move to Next Question



EFFORT BY AMAAN KHAN

VU Medical Zone

BC170406488: MIRZA USSAMA HUSSAIN

Time Left 86 sec(s)

BT505:Quiz No1

Quiz Start Time: 01:23 AM, 22 December 2020

Question # 7 of 10 (Start time: 01:26:48 AM, 22 December 2020)

Total Marks: 1

The sensors are classified on the basis of _____.

Select the correct option

☐	Function	
☐	Output	
☐	Performance	
☒	All of above	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



BC170406488: MIRZA USSAMA HUSSAIN

Time Left 85 sec(s)

BT505:Quiz No1

Quiz Start Time: 01:23 AM, 22 December 2020

Question # 8 of 10 (Start time: 01:26:59 AM, 22 December 2020)

Total Marks: 1

Features of biosensors are

Select the correct option

☐	Bio-receptors	
☐	Transducers	
☐	Signal processors	
☒	All	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



EFFORT BY AMAAN KHAN

VU Medical Zone

BC170406488: MIRZA USSAMA HUSSAIN

Time Left 86 sec(s)

BT505:Quiz No1

Quiz Start Time: 01:23 AM, 22 December 2020

Question # 9 of 10 (Start time: 01:27:12 AM, 22 December 2020)

Total Marks: 1

In Glucose biosensor, current which generated from interaction of receptor and analyte is directly proportional to the concentration of -----?

Select the correct option

☐	Blood	
☒	Glucose	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Plasma	
☐	Glucose + Blood	

Click to Save Answer & Move to Next Question



BC170406488: MIRZA USSAMA HUSSAIN

Time Left 84 sec(s)

BT505:Quiz No1

Quiz Start Time: 01:23 AM, 22 December 2020

Question # 10 of 10 (Start time: 01:27:24 AM, 22 December 2020)

Total Marks: 1

Which of the following enzyme use glucose a s substrate in Glucose sensor -----?

Select the correct option

☐	Glucose Oxidase	
☐	Glucose Dehydrogenase	
☐	Glucose isomerase	
☒	Both A & B	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



EFFORT BY AMAAN KHAN

VU Medical Zone

BC170406423: MUHAMMAD YASIR SHAHZAD

Time Left 65 sec(s)

BT505:Quiz No1

Quiz Start Time: 12:55 AM, 22 December 2020

Question # 1 of 10 (Start time: 12:55:20 AM, 22 December 2020)

Total Marks: 1

Which of the following is the bio-recognition element of a biosensor-----?

Select the correct option

☒	Protein	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Transducer	
☐	Detector	
☐	Display Unit	

Click to Save Answer & Move to Next Question



BC170406423: MUHAMMAD YASIR SHAHZAD

Time Left 63 sec(s)

BT505:Quiz No1

Quiz Start Time: 12:55 AM, 22 December 2020

Question # 2 of 10 (Start time: 12:56:17 AM, 22 December 2020)

Total Marks: 1

In Glucose biosensor, current which generated from interaction of receptor and analyte is directly proportional to the concentration of -----?

Select the correct option

☐	Blood	
☒	Glucose	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Plasma	
☐	Glucose + Blood	

Click to Save Answer & Move to Next Question



EFFORT BY AMAAN KHAN

VU Medical Zone

BC170406423: MUHAMMAD YASIR SHAHZAD

Time Left 71 sec(s)

BT505:Quiz No1

Quiz Start Time: 12:55 AM, 22 December 2020

Question # 3 of 10 (Start time: 12:57:04 AM, 22 December 2020)

Total Marks: 1

Which of the following bind to minor groove of DNA-----?

Select the correct option

☐	Horseradish Peroxidase	
☐	Glycosylate	
☐	Ferrocenyl naphthalene diimide	
☒	Methylene blue	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



BC170406423: MUHAMMAD YASIR SHAHZAD

Time Left 70 sec(s)

BT505:Quiz No1

Quiz Start Time: 12:55 AM, 22 December 2020

Question # 4 of 10 (Start time: 12:57:37 AM, 22 December 2020)

Total Marks: 1

_____ is the process of joining two single strands of complementary DNA sequence and forming dsDNA.

Select the correct option

☐	DNA replication	
☒	DNA hybridization	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	DNA origami	
☐	Gene transformation	

Click to Save Answer & Move to Next Question



EFFORT BY AMAAN KHAN

VU Medical Zone

BC170406423: MUHAMMAD YASIR SHAHZAD

Time Left 74 sec(s)

BT505:Quiz No1

Quiz Start Time: 12:55 AM, 22 December 2020

Question # 5 of 10 (Start time: 12:58:09 AM, 22 December 2020)

Total Marks: 1

Which of the following class of antibody is generated against multiple epitope -----?

Select the correct option

☐	Monoclonal Antibody	
☒	Polyclonal antibody	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Monosomic antibody	
☐	Polysomic antibody	

Click to Save Answer & Move to Next Question



BC170406423: MUHAMMAD YASIR SHAHZAD

Time Left 52 sec(s)

BT505:Quiz No1

Quiz Start Time: 12:55 AM, 22 December 2020

Question # 6 of 10 (Start time: 12:58:38 AM, 22 December 2020)

Total Marks: 1

The sensors are classified on the basis of _____

Select the correct option

☐	Function	
☐	Output	
☐	Performance	
☒	All of above	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



EFFORT BY AMAAN KHAN

VU Medical Zone

BC170406423: MUHAMMAD YASIR SHAHZAD

Time Left 79 sec(s)

BT505:Quiz No1

Quiz Start Time: 12:55 AM, 22 December 2020

Question # 7 of 10 (Start time: 12:59:41 AM, 22 December 2020)

Total Marks: 1

Antibodies are valuable and robust tools for the fabrication of -----?

Select the correct option

☐	Nano-sensors	
☒	Immunosensor	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Glucometer	
☐	Aptasensor	

Click to Save Answer & Move to Next Question



BC170406423: MUHAMMAD YASIR SHAHZAD

Time Left 72 sec(s)

BT505:Quiz No1

Quiz Start Time: 12:55 AM, 22 December 2020

Question # 8 of 10 (Start time: 01:00:03 AM, 22 December 2020)

Total Marks: 1

The minimum amount of analyte that can be detected by a biosensor defines its _____.

Select the correct option

☐	Linearity	
☐	Stability	
☐	Precision	
☒	Sensitivity	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



EFFORT BY AMAAN KHAN

VU Medical Zone

BC170406423: MUHAMMAD YASIR SHAHZAD

Time Left 69 sec(s)

BT505:Quiz No1

Quiz Start Time: 12:55 AM, 22 December 2020

Question # 9 of 10 (Start time: 01:00:41 AM, 22 December 2020)

Total Marks: 1

A Biosensor is composed of

Select the correct option

☐	Biological component	
☐	Physical component	
☐	Chemical Component	
☒	Biological and Physical component	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



BC170406423: MUHAMMAD YASIR SHAHZAD

Time Left 28 sec(s)

BT505:Quiz No1

Quiz Start Time: 12:55 AM, 22 December 2020

Question # 10 of 10 (Start time: 01:01:20 AM, 22 December 2020)

Total Marks: 1

Factor that affects the stability of a measurement is _____ of the bio-receptor over a period of time.

Select the correct option

☐	Temperature	
☒	Affinity	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Electrostatic force	
☐	Degradation	

Click to Save Answer & Move to Next Question



EFFORT BY AMAAN KHAN

VU Medical Zone

BT505:Quiz No1

Quiz Start Time: 01:17 AM, 22 December 2020

Question # 1 of 10 (Start time: 01:17:42 AM, 22 December 2020)

Total Marks: 1

In Glucose biosensor, current which generated from interaction of receptor and analyte is directly proportional to the concentration of -----?

Select the correct option

☐	Blood	
☒	Glucose	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Plasma	
☐	Glucose + Blood	

Click to Save Answer & Move to Next Question



BT505:Quiz No1

Quiz Start Time: 01:17 AM, 22 December 2020

Question # 2 of 10 (Start time: 01:18:02 AM, 22 December 2020)

Total Marks: 1

A transistor that uses an electric field to control the shape and hence the conductivity of channel of one type or charge carrier in a semiconductor material is called _____.

Select the correct option

☒	Field Effect Transistor	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Darlington Transistor	
☐	Schottky Transistor	
☐	Multiple-Emitter Transistor	

Click to Save Answer & Move to Next Question



EFFORT BY AMAAN KHAN

VU Medical Zone

BT505:Quiz No1

Quiz Start Time: 01:17 AM, 22 December 2020

Question # 3 of 10 (Start time: 01:18:16 AM, 22 December 2020)

Total Marks: 1

_____ is the ability of a biosensor to obtain identical response for duplicate experimental setup?

Select the correct option

☐	Selectivity	
☐	Limit of Detection	
☐	Linearity	
☒	Reproducibility	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



BT505:Quiz No1

Quiz Start Time: 01:17 AM, 22 December 2020

Question # 4 of 10 (Start time: 01:18:34 AM, 22 December 2020)

Total Marks: 1

_____ is the process of joining two single strands of complementary DNA sequence and forming dsDNA.

Select the correct option

☐	DNA replication	
☒	DNA hybridization	
☐	DNA origami	
☐	Gene transformation	

Click to Save Answer & Move to Next Question



EFFORT BY AMAAN KHAN

VU Medical Zone

BT505:Quiz No1

Quiz Start Time: 01:17 AM, 22 December 2020

Question # 5 of 10 (Start time: 01:18:47 AM, 22 December 2020)

Total Marks: 1

The analyte that can be detected from biosensor could be a -----?

Select the correct option

☐	Molecule	
☐	Pathogen	
☐	Toxin	
☒	All of these	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



BT505:Quiz No1

Quiz Start Time: 01:17 AM, 22 December 2020

Question # 6 of 10 (Start time: 01:19:01 AM, 22 December 2020)

Total Marks: 1

Antibodies are valuable and robust tools for the fabrication of -----?

Select the correct option

☐	Nano-sensors	
☒	Immunosensor	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Glucometer	
☐	Aptasensor	

Click to Save Answer & Move to Next Question



EFFORT BY AMAAN KHAN

VU Medical Zone

BT505:Quiz No1

Quiz Start Time: 01:17 AM, 22 December 2020

Question # 7 of 10 (Start time: 01:19:14 AM, 22 December 2020)

Total Marks: 1

The biological component of the Biosensor are

Select the correct option

☐	Proteins, Nucleic acids, Cell, chemicals, electrodes	
☒	Enzymes, hormones, antibody, nucleic acids, virus	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Enzymes, substrate, analyte, target molecule	
☐	Antibody, bacteria, culture media, platform	

Click to Save Answer & Move to Next Question



BT505:Quiz No1

Quiz Start Time: 01:17 AM, 22 December 2020

Question # 8 of 10 (Start time: 01:20:04 AM, 22 December 2020)

Total Marks: 1

The Blood glucose Biosensor is a good example of _____.

Select the correct option

☐	Optical Biosensor	
☐	Electrochemical Biosensor	
☒	Amperometric Biosensor	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	SPR Biosensor	



Click to Save Answer & Move to Next Question



EFFORT BY AMAAN KHAN

VU Medical Zone

BT505:Quiz No1

Quiz Start Time: 01:17 AM, 22 December 2020

Question # 9 of 10 (Start time: 01:22:14 AM, 22 December 2020)

Total Marks: 1

The minimum amount that a biosensor can detect is defined as its -----?

Select the correct option

☒	Selectivity	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Limit of Detection	
☐	Reproducibility	
☐	Biocompatibility	

Click to Save Answer & Move to Next Question



BT505:Quiz No1

Quiz Start Time: 01:17 AM, 22 December 2020

Question # 10 of 10 (Start time: 01:22:28 AM, 22 December 2020)

Total Marks: 1

Which of the following bind to minor groove of DNA-----?

Select the correct option

☐	Horseradish Peroxidase	Answer Solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Glycosylate	
☐	Ferrocenyl naphthalene diimide	
☒	Methylene blue	

Click to Save Answer & Move to Next Question



EFFORT BY AMAAN KHAN