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| 210 | Answer | 6 th Sei INTELLI Part-A v e figures | GENT BR | W VI ANC Tir Max Q.0 is co | RTU H : A ne : k Ma CODI mpu | AL IN EIE, 3 Hor rks : E : Ca Ilsory | NSTR EIE, urs 100 353 / and | RUME IEE I any | ENTA | TION | n Part-B. | | 210 |
| | | F | Part – <i>F</i> | A (Ans | swer | all th | e an | estio | ns) | | | | |
| Q1 a) | a) A fuzzy sysb) The convec) A continuo | following uzzy App stem can rsion of fu us system | quest roxima model uzzy log n can m | ions tion T any c gic to nodel | heore ontin proba a fuz | tiple em(F/ uous : ability zy sys | type AT) syste stem. | or da | ish fil | - ' | | (2 x 10) | |
| 210 b) | d) Fuzzy pato Fuzzy logic technologies is: i. Fuzzy logi ii. Fuzzy logi approxima | has rapion for develong the contract of the co | dly beoping s les the the ab | come ophis huma | one ticate an wa | of today | he m itrol s ninkin | ysten ıg. | ns. Th | ssful ne rea | son for this | | 210 |
| 210 | iii. Fuzzy logio a) i & ii & iii b) i & ii c) ii & iii only d) none of the | e above | to imple | emen | t. | 210 | | | 21 | | 21 | | 210 |
| C) | A perceptron a) a single lay b) an auto-as c) a double lay | er feed-fo sociative | neural | netwo | ork | | • | ore-pr | ocess | J | 21 | | 210 |
| ď | d) a neural neWhich is truea) It has set ofb) Each nodec) Node could | etwork that for neural of nodes at computed be in ex | at conta I netwo and con as it's w cited st | ains fe orks? onection eighte | edba ons ed inp | out | | ate | | | | | |
| ₂₁₀ e) | a) A softwareb) It is powerc) Designed td) It is software | re is: used to a ful and ea o aid exp re used b | analyze sy neu erts in y Neur | ral ne real w o surç | twork orld geon | 210 | wi | th ma | any pa | | 21 Inters | | 210 |
| 210 | a) Linear Fun b) Nonlinear I c) Discrete Fu d) Exponentia | ctions Functions unctions | 210 | · | | 210 | vv1 | u i i i i i | 21 ₁ | | 21 | | 210 |

| | g) | Before connecting a sensor to your DAQ device, it is important to know the | | |
|------------------|----------------|---|----------------------------|--|
| | | of your device. | | |
| | | a) Device Pinouts | | |
| | | b) Signal Routing | | |
| 210 | | c) Connection Diagram d) User Manual 210 210 210 210 210 | | |
| 210 | | a) Good Mariadi | | |
| | h) | If you are plotting a large array of data at one time, and you want the previous data that was displayed to be removed before plotting new data, use a | | |
| | | a) Waveform Chart | | |
| | | b) Waveform Graph | | |
| | i) | To analyze a signal in the frequency domain, you must first calculate the FFT | | |
| 210 | · | of the time domain signal. In LabVIEW, you can accomplish this using the Express VI. | | |
| | | Spectral Measurements | | |
| | | a) Filter | | |
| | | b) Statistics | | |
| | | c) Amplitude and Level Measurements | | |
| | j) | To incorporate C or C++ structured code into LabVIEW, it is best to use the | | |
| 210 | | a) MathScript Node 210 210 210 210 | | |
| | | b) Formula Node | | |
| | | | | |
| Q2 | | Answer the following questions : Short answer type : | (2 x 10) | |
| | a) | What are BUS utility signal in LabVIEW ? | , | |
| | b) | What do you mean by Perceptron ? | | |
| | c) | Merits of graphical programming over conventional programming. | | |
| | ۸۱ | What do you man by Doourrent noural natural? | | |
| 210 | | · | | |
| | e) | What can you use a shift-register for? | | |
| | f) | Which is the preferred method of exchanging data between different while-loops in a diagram? | | |
| | g) | What is the purpose of a LLB-file? | | |
| | h) | What does it mean that Field Point is a distributed I/O-system? | | |
| | i) | The automatically populates a list of all variables in the | | |
| 210 | | equation for possible output terminals. | | |
| | | 210 210 210 210 | | |
| | | a) Math Script Node | | |
| | | a) Math Script Node b) Formula Node | | |
| | j) | a) Math Script Nodeb) Formula NodeTo see if a measured signal has exceeded a threshold in LabVIEW, you can | | |
| | | a) Math Script Nodeb) Formula NodeTo see if a measured signal has exceeded a threshold in LabVIEW, you can use the Mask and Limit Testing Express VI. When plotting the Tested Signals | | |
| | | a) Math Script Node b) Formula Node To see if a measured signal has exceeded a threshold in LabVIEW, you can use the Mask and Limit Testing Express VI. When plotting the Tested Signals output, the Threshold/Limit is also plotted. | | |
| | | a) Math Script Nodeb) Formula NodeTo see if a measured signal has exceeded a threshold in LabVIEW, you can use the Mask and Limit Testing Express VI. When plotting the Tested Signals | | |
| 210 | j) | a) Math Script Node b) Formula Node To see if a measured signal has exceeded a threshold in LabVIEW, you can use the Mask and Limit Testing Express VI. When plotting the Tested Signals output, the Threshold/Limit is also plotted. True or False? | | |
| | j) | a) Math Script Node b) Formula Node To see if a measured signal has exceeded a threshold in LabVIEW, you can use the Mask and Limit Testing Express VI. When plotting the Tested Signals output, the Threshold/Limit is also plotted. True or False? Part - B (Answer any four questions) 210 210 | (10) | |
| 210 Q3 | j) | a) Math Script Node b) Formula Node To see if a measured signal has exceeded a threshold in LabVIEW, you can use the Mask and Limit Testing Express VI. When plotting the Tested Signals output, the Threshold/Limit is also plotted. True or False? Part – B (Answer any four questions) Pert – B (Answer any four questions) Describe Fuzzy Interval arithmetic, manipulating Fuzzy numbers in details | (10) | |
| | j) a) | a) Math Script Node b) Formula Node To see if a measured signal has exceeded a threshold in LabVIEW, you can use the Mask and Limit Testing Express VI. When plotting the Tested Signals output, the Threshold/Limit is also plotted. True or False? Part – B (Answer any four questions) Describe Fuzzy Interval arithmetic, manipulating Fuzzy numbers in details with examples. | . , | |
| | j) | a) Math Script Node b) Formula Node To see if a measured signal has exceeded a threshold in LabVIEW, you can use the Mask and Limit Testing Express VI. When plotting the Tested Signals output, the Threshold/Limit is also plotted. True or False? Part – B (Answer any four questions) Pert – B (Answer any four questions) Describe Fuzzy Interval arithmetic, manipulating Fuzzy numbers in details | (10) (5) | |
| Q3 | j) a) b) | a) Math Script Node b) Formula Node To see if a measured signal has exceeded a threshold in LabVIEW, you can use the Mask and Limit Testing Express VI. When plotting the Tested Signals output, the Threshold/Limit is also plotted. True or False? Part – B (Answer any four questions) Pescribe Fuzzy Interval arithmetic, manipulating Fuzzy numbers in details with examples. Describe RBF networks. | (5) | |
| | j) a) b) a) | a) Math Script Node b) Formula Node To see if a measured signal has exceeded a threshold in LabVIEW, you can use the Mask and Limit Testing Express VI. When plotting the Tested Signals output, the Threshold/Limit is also plotted. True or False? Part – B (Answer any four questions) Describe Fuzzy Interval arithmetic, manipulating Fuzzy numbers in details with examples. Describe RBF networks. Describe Threshold logic unit as a model of a Biological Neuron. | (5) (10) | |
| Q3 Q4 | j) a) b) a) b) | a) Math Script Node b) Formula Node To see if a measured signal has exceeded a threshold in LabVIEW, you can use the Mask and Limit Testing Express VI. When plotting the Tested Signals output, the Threshold/Limit is also plotted. True or False? Part – B (Answer any four questions) Describe Fuzzy Interval arithmetic, manipulating Fuzzy numbers in details with examples. Describe RBF networks. Describe Threshold logic unit as a model of a Biological Neuron. Explain the forward dynamics identification scheme in Adaline. | (5) | |
| Q3 Q4 | j) a) b) a) b) | a) Math Script Node b) Formula Node To see if a measured signal has exceeded a threshold in LabVIEW, you can use the Mask and Limit Testing Express VI. When plotting the Tested Signals output, the Threshold/Limit is also plotted. True or False? Part - B (Answer any four questions) Describe Fuzzy Interval arithmetic, manipulating Fuzzy numbers in details with examples. Describe RBF networks. Describe Threshold logic unit as a model of a Biological Neuron. Explain the forward dynamics identification scheme in Adaline. | (5) (10) (5) | |
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| | | | | leural Fuzzy ne working ir | | ion scheme | of a non | ılinear d | ynamic | al system | ۱. | (10) (5) | |
| | Q7 a | | | detail about | LOOPs an | nd CHARTs | in LabV | IEW. Ex | xplain ir | n detail w | /ith | (10) | |
| 210 | 210 | | amples escribe | a state mac | hine with a | a suitable ex | ample | | 210 | | 210 | (5) | 210 |
| | Q8 a | su | itable e | the Data examples. | | | | | al Inter | facing w | /ith | (10) | |
| | I | b) Di | stinguis | sh between p | oractical an | nd ideal virtu | ual interf | acing. | | | | (5) | |
| 210 | | | | ne inter conv SPIB interfac | | | lusters in | n LabVI | EW. 210 | | 210 | (10) (5) | 210 |
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