School of Engineering & Technology

School of Pharmacy

KALSEKAR TECHNICAL CAMPUS

TEACHING . EXUBERANT LEARNING

Knowledge Resource & Relay Centre (KRRC)

AIKTC/KRRC/SoET/ACKN/QUES/2021-22/

School: SoET-REV. C-Scheme

Branch: COMP. ENGG. SEM:

To,

Exam Controller.

AIKTC, New Panvel.

Dear Sir/Madam,

Received with thanks the following Semester/Unit Test-II (Reg./ATKT) question papers from your exam cell:

| Sr. | Subject Name | Subject Code | For | mat | No. of |
|-----|--|--------------|-----|-----|--------|
| No. | _ A [13] [43] [45] | | SC | HC | Copies |
| 1 | System Programming & Compiler Construction | CSC601 | 7 | | |
| 2 | Cryptography & System Security | CSC62 | | / | |
| 3 | Mobile Computing | CSC603 | 4 | | |
| 4 | Artificial Intelligence | CSC604 | | / | |
| 5 | Department Level Optional Course -2 | BAI - INDIA | | | |
| | | | | | |
| | | 8. | | | |

Note: SC - Softcopy, HC - Hardcopy

(Shaheen Ansari) Librarian, AIKTC

University of Mumbai Examinations Summer 2022

Time: 2hour 30 minutes Max. Marks: 80

Computer Engg Sem: VI, R-19 18/05/20 Sub: SPCC

| compulsory and carry equal marks | |
|--|--|
| | |
| Identify the correct statement with respect to inherited attributes? | |
| The attributes can take values from the parents and from the left siblings but not the rig sibling | |
| The attributes can take values from the parents and from the right siblings but not the leasibling | |
| The attribute can take value either from its parent or from its siblings. | |
| The attribute can only take value from its siblings. | |
| Which of the following is the graphical representation that shows the basic blocks a their successor relationship? | |
| Hamiltonian graph | |
| Control graph | |
| Flow graph | |
| DAG | |
| | |
| Rearrange the Compilation Process in the correct order:- a. Linking b. Assembling c. Pre-Processing d. Compiling | |
| $c \rightarrow d \rightarrow b \rightarrow a$ | |
| $c \rightarrow d \rightarrow a \rightarrow b$ | |
| $d \rightarrow c \rightarrow b \rightarrow a$ | |
| c→b→d→a | |
| What will be the FOLLOW(A) for following grammar? S→AaAb S→BaBb A→ε B→ε | |
| Only a | |
| | |
| a, b Only b | |
| Only 6 | |
| Only E | |
| Which technique is applicable to optimize the given code? t=c*4 for (j=0; j < c*4; j++) {} | |
| Constant Propagation | |
| Copy Propagation | |
| Induction Variable Reduction | |
| Common Sub-expression Elimination | |
| Consider the code:- MACRO &TEST ABC &X, &Y, &Z &TEST A 1, &X A 2, &Y | |
| | |

| | MEND | |
|-----------|--|--|
| | LOOP1 SPCC P1,P2,P3 | |
| | What will be the value in MDTC and MNTC after processing macro definition? | |
| Option A: | MDTC = 5, MNTC =1 | |
| Option B: | MDTC = 6, MNTC =2 | |
| Option C: | MDTC = 2, MNTC =6 | |
| Option D: | MDTC = 1, MNTC =5 | |
| 7. | Consider the Assembly code and Identify the type of statement: | |
| | START 300 Line -1 ADD AREG,A | |
| | Line -2 A DC '4' | |
| | - A | |
| | | |
| | END 11 D' d' | |
| Option A: | Line -1 is Imperative Statement and Line-2 is Assembler Directive | |
| Option B: | Line -1 is Assembler Directive and Line-2 is Declaration Directive | |
| Option C: | Line -1 is Imperative Statement and Line-2 is Declaration Statement | |
| Option D: | Line -1 is Declaration Directive and Line-2 is Assembler Directive | |
| | The order of the second of the | |
| 8. | Which of the following grammar is appropriate for operator precedence grammar? | |
| Option A: | S-> EF | |
| Option B: | S-> E*F ε | |
| Option C: | S-> E+F | |
| Option D: | S-> +EF | |
| | a 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |
| 9. | Consider the Assembly code and Identify the type of statement: | |
| | START 100 | |
| | Line-1 MOVER AREG, First | |
| | Line-2 ADD AREG, Second | |
| | Line-3 MOVEM AREG, Result | |
| | Line-4 PRINT Result What will be the intermediate code and Current Location Counter for Line-2? | |
| | What will be the intermediate code and Current Location Counter for Ene-2. | |
| Option A: | LC = 101, Intermediate code: (IS,02) (RG,01) (S,1) | |
| Option B: | LC = 101, Intermediate code: (IS,01) (RG,01) (S,1) | |
| Option C: | LC = 102, Intermediate code : (IS,01) (RG,01) (S,1) | |
| Option D: | LC = 102, Intermediate code: (IS,02) (RG,01) (S,1) | |
| 10. | In terms of relocating the loader, which of the following is used to overcome the problem of linking? | |
| Option A: | Transfer Vector | |
| | Relocation bits | |
| Option B: | TOUTON TOTAL | |
| Option B: | Transfer Array | |

| Q2. | | | |
|------|---|---------------|--|
| A | Solve any Two | 5 marks each | |
| i. | Write a short note on Peephole Optimization. | 4 . | |
| ii. | Differentiate between Application and System S | Software. | |
| iii. | What are the functions of Loader? | | |
| B | Solve any One | 10 marks each | |
| i. | Explain the different phases of compiler with suitable example? | | |
| ii. | What are the different ways of representing Intermediate code? Explain with example | | |

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| Q3 | Solve any Two Questions out of Three 10 marks each |
|---|--|
| | |
| A | Consider the following Assembly Program:- START 501 A DS 1 B DS 1 C DS 1 READ A READ B MOVER AREG, A ADD AREG, B MOVEM AREG, C PRINT C END |
| | Generate Pass-1 and Pass-2 and also show the content of Database table involved in it. |
| В | Explain various Code Optimization techniques in detail. |
| Test whether the given grammar is in LL(1) or not. Construct LL(1) Parsing Tab S→AB/gDa A→ab/c C B→dC C→gC/g D→fD/g Where a,b,c,d,f,g are the terminals and S,A,B,C,D are the Non-Terminals | |

| Q4 | | 1 TO 25 |
|------|---|----------------------------------|
| A | Solve any Two | 5 marks each |
| i. | Draw a neat flowchart of pas | s-1 of two pass assembler design |
| ii. | What is relocation and linking concept in Loaders | |
| iii. | Compare Pattern, Lexeme an | d token with example |
| В | Solve any One | 10 marks each |
| i. | Draw a neat flowchart of two pass macro processor. Explain with the help of example | |
| ii. | Explain the design of direct li | inking loader. |

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Time: 2 hour 30 minutes

University of Mumbai Examinations Summer 2022

Break CO, JA

| Q1. | Choose the correct option for following questions. All the Questions ar |
|--|---|
| | compulsory and carry equal marks |
| 1. | The principle of ensures that the sender of a message cannot late |
| | deny sending of the message |
| Option A: | Authentication Non repudiation Access control Integrity |
| Option B: | Non repudiation SARARASSU SESSION |
| Option C: | Access control かぶらかぶんだがらあるもとするまと |
| Option D: | Integrity あんぷんとうからんだんかのうとこぞぎ |
| | |
| 2. | Rail Fence Technique is an example of へんちゃん いんかん かんりん かんりん |
| Option A: | Substitution Sold Sold Sold Sold Sold Sold Sold Sold |
| Option B: | Transposition マダマラママママスティー |
| Option C: | Transposition product cipher Caesar cipher |
| Option D: | Caesar cipher PRANCES |
| Option 2. | 10000000000000000000000000000000000000 |
| 3. | The number of symmetric keys needed for one to one communication between |
| J. | people is people is |
| Option A: | 256 |
| Option B: | 32 REST REST REST REST REST REST REST REST |
| Option C: | |
| Option D: | 8 0000000000000000000000000000000000000 |
| Option D. | |
| - | For the Knapsack 11681524, find the plain text code if the ciphertext is 39 |
| 4. | |
| Option A: | |
| Option B: | 111018 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| Option C: | PHO 101 C O S O S O S S S S S S S S S S S S S S |
| Option De | 8001 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| 1000 | CONTRACTOR SOCIETY OF |
| 5.86 | The man in the middle stack can endanger the security of the Diffie-Hellma method if two parties are not |
| Option A: | Authenticated Annie Constitution |
| Option B. | |
| Option C | Submitters |
| Option D | |
| 820,732 | |
| 3800 | What is honey pot attack? |
| Option A | duming device put into the network to attract attackers |
| | single line threat |
| make the second | Tespooring bypass |
| Control of the last of the las | |
| Option D; | recognition attack |
| 100 CO CO | N. A. C. A. |
| 407/05/00 | Which is not a component of Public key infrastructure (PKI)? |
| Option A: | Client |
| Option B. | CRU PAN |
| Option CS | CA 270. |
| Option D | KDC |
| 82000 G | 120 |

| DO ATIVEC IV | |
|--------------|--|
| K@AJKTC-K | The attack in which the attacker aims at exhausting the targeted server's |
| | resources. |
| Option A: | Phishing attack |
| Option B: | DoS attack |
| Option C: | Website scripting attack |
| Option D: | SQL injection attack |
| | 44888888888888888888888888888888888888 |
| 9. | Secure Hash Algorithm -1 (SHA-1) has a message digest of Social Secure Hash Algorithm -1 (SHA-1) has a message digest of Socia |
| Option A: | 160 bits 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| Option B: | 512 bits |
| Option C: | 628 bits |
| Option D: | 820 bits 20 bits |
| | \$25.64.88.42.69.89.00.44.8 |
| 10. | Which of the following is considered as the unsolicited commercial email? |
| Option A: | Virus Salas |
| Option B: | Malware SASSARBSARSSARSSARS |
| Option C: | Spam SPSS SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS |
| Option D: | Adware SUPPLIES SUPPL |

| | | AT WHAT EVERY CONTRACTOR |
|---|---|--|
| Q2 | \$388555C | 7, 9, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, |
| A | Solve any Two San | SUPERSON 5 marks each |
| i. | Explain the relationship between Sec | writy Services and Mechanisms in detail. |
| ii. | Explain ECB and CBC modes of blo | |
| iii. | Define non-repudiation and authentic | cation. Show with example how it can be |
| В | Solve any One | 10 marks each |
| i. | Elaborate the steps of key generation system the public key (E, R) of user $\phi(N)$ and private key D. What is the | A is seemed as (7,187). Calculate text for M=10 using the public |
| ii da | Discuss DES with reference to follow f. Block size and key size 2. Need of expansion permutation 3. Role of 5-box 4. Weak keys and semi-weak keys 5. Possible attacks on DES | wing points |

| \$ 8 8 03 8 0 X | | |
|---|--|--------------------------|
| 8088 AS NO. 83 | Solve any Two | 5 marks each |
| 888888888 8888888888888888888888888888 | What are properties of hash function? Explain resecutive | role of hash function in |
| | Explain working of TGS in Kerberos. | |
| ANT CHIESONS | Dist and explain various types of attacks on enc | crypted message. |
| BOBOS | Solve any One | 10 marks each |
| | Why are digital certificates and signatures required agreement of the digital certificates? Explain signature algorithm. | any one digital |
| | What is the need for message authentication? Lused for message authentication. Explain any o | |

| 1,46,2,0,0,0,00,00 | |
|---|--|
| 000000000000000000000000000000000000000 | |
| SS 5 04 8 8 | |
| L. D. Charles and J. Van | A CONTRACTOR OF THE PROPERTY O |

| A | Solve any Two | 5 marks each |
|------|--|-----------------------------------|
| i. | Explain handshake protocol in SSL. | |
| ii. | Explain buffer overflow attack. | |
| iii. | List various Software Vulnerabilities. to launch an attack. | How vulnerabilities are exploited |
| . В | Solve any One | 10 marks each |
| į. | How does PGP achieve confidentiality ar | nd-authentication in emails? |
| ii. | How is security achieved in Transport and Tunnel modes of IPSEC? Explain the role of AH and ESP. | |



Of code IRQAIKTE-KRRC

University of Mumbai Examinations Summer 2022 (Revised Set May 2022)

SEM VI CBCS

24/05/2022 Comps: R19 Sub: MC

Max. Marks: 80

Time: 2 Hr 30 Mins

| Q1. | Choose the correct option for following questions. All the Questions are compulsory and |
|---|--|
| | carry equal marks |
| 1. | VoLTE Stands for |
| Option A: | Voice over Long Term Evolution |
| Option B: | Voice Over Local Telecommunication Equipment |
| Option C: | Video Over Long Term Evolution |
| Option D: | Volume Over Long Term Evolution |
| 2. | UTRAN stands for |
| Option A: | Universal Transmission Radio Networks |
| Option B: | Universal Terrestrial Radio Access Network |
| Option C: | Unified Transmission Area Network |
| Option D: | Universal Time Radio Access Network |
| Option D. | Cinversar Time Radio Access Network |
| 3. | Which of the following Stores the User Related Data That is also relevant to GSM Mobile Systems? |
| Option A: | VLR |
| Option B: | HMR |
| Option C: | GMR |
| Option D: | SIM |
| | |
| | |
| 4. | Generic Routing Encapsulation allows the encapsulation of packet of One protocol suite into payload portion of a packet of another Protocol suite is nothing but |
| 4. Option A: | |
| Option A: | payload portion of a packet of another Protocol suite is nothing but |
| | payload portion of a packet of another Protocol suite is nothing but GRE IP Tunneling |
| Option A: Option B: | GRE |
| Option A: Option B: Option C: Option D: | payload portion of a packet of another Protocol suite is nothing but GRE IP Tunneling Protocol Synchronization Minimal Encapsulation |
| Option A: Option B: Option C: Option D: | payload portion of a packet of another Protocol suite is nothing but GRE IP Tunneling Protocol Synchronization Minimal Encapsulation Two or more antennas can also be combined to Improove the reception by counteracting the negative effects of multi path propagation, these antennas are also termed as |
| Option A: Option B: Option C: Option D: 5. Option A: | payload portion of a packet of another Protocol suite is nothing but GRE IP Tunneling Protocol Synchronization Minimal Encapsulation Two or more antennas can also be combined to Improove the reception by counteracting the |
| Option A: Option B: Option C: Option D: | payload portion of a packet of another Protocol suite is nothing but GRE IP Tunneling Protocol Synchronization Minimal Encapsulation Two or more antennas can also be combined to Improove the reception by counteracting the negative effects of multi path propagation, these antennas are also termed as |
| Option A: Option B: Option C: Option D: 5. Option A: | payload portion of a packet of another Protocol suite is nothing but GRE IP Tunneling Protocol Synchronization Minimal Encapsulation Two or more antennas can also be combined to Improove the reception by counteracting the negative effects of multi path propagation, these antennas are also termed as multi element antenna Array |
| Option A: Option C: Option D: 5. Option A: Option A: Option B: Option C: | payload portion of a packet of another Protocol suite is nothing but GRE IP Tunneling Protocol Synchronization Minimal Encapsulation Two or more antennas can also be combined to Improove the reception by counteracting the negative effects of multi path propagation, these antennas are also termed as multi element antenna Array Smart Antenna |
| Option A: Option B: Option C: Option D: 5. Option A: Option B: Option C: Option C: Option C: | payload portion of a packet of another Protocol suite is nothing but GRE IP Tunneling Protocol Synchronization Minimal Encapsulation Two or more antennas can also be combined to Improove the reception by counteracting the negative effects of multi path propagation, these antennas are also termed as multi element antenna Array Smart Antenna Sectored antenna Isotropic Radiator |
| Option A: Option C: Option D: 5. Option A: Option A: Option B: Option C: | payload portion of a packet of another Protocol suite is nothing but GRE IP Tunneling Protocol Synchronization Minimal Encapsulation Two or more antennas can also be combined to Improove the reception by counteracting the negative effects of multi path propagation, these antennas are also termed as multi element antenna Array Smart Antenna Sectored antenna |
| Option A: Option B: Option C: Option D: 5. Option A: Option B: Option C: Option C: Option C: | payload portion of a packet of another Protocol suite is nothing but GRE IP Tunneling Protocol Synchronization Minimal Encapsulation Two or more antennas can also be combined to Improove the reception by counteracting the negative effects of multi path propagation, these antennas are also termed as multi element antenna Array Smart Antenna Sectored antenna Isotropic Radiator |
| Option A: Option B: Option D: 5. Option A: Option A: Option B: Option C: Option C: Option D: 6. | payload portion of a packet of another Protocol suite is nothing but GRE IP Tunneling Protocol Synchronization Minimal Encapsulation Two or more antennas can also be combined to Improove the reception by counteracting the negative effects of multi path propagation, these antennas are also termed as multi element antenna Array Smart Antenna Sectored antenna Isotropic Radiator What is an Access Point |
| Option A: Option B: Option D: 5. Option A: Option A: Option B: Option C: Option D: 6. Option A: Option A: | payload portion of a packet of another Protocol suite is nothing but GRE IP Tunneling Protocol Synchronization Minimal Encapsulation Two or more antennas can also be combined to Improove the reception by counteracting the negative effects of multi path propagation, these antennas are also termed as multi element antenna Array Smart Antenna Sectored antenna Isotropic Radiator What is an Access Point An entity that provides access to LLC layer An entity that provides access to MAC layer |
| Option A: Option B: Option D: 5. Option A: Option A: Option B: Option C: Option D: 6. Option A: Option A: | payload portion of a packet of another Protocol suite is nothing but GRE IP Tunneling Protocol Synchronization Minimal Encapsulation Two or more antennas can also be combined to Improove the reception by counteracting the negative effects of multi path propagation, these antennas are also termed as multi element antenna Array Smart Antenna Sectored antenna Isotropic Radiator What is an Access Point An entity that provides access to LLC layer |

IR@AIKTC-KRRC A Mobile Phone Uses _____Type of Communication 7. Option A: Full Duplex Option B: Half Duplex Option C: Both A and B Option D: None of the Above There is a need for certain to avoid the frequency Overlapping in FDM. 8. Guard Space Option A: Option B: Frequency Range Option C: Carrier Attenuator Option D: Which of the following is the disadvantage of having smaller cells in Cellular System 9.

| Option C: | Fast Recovery | |
|-----------|---|--------------------|
| Option D: | Slow Start | |
| | | |
| Q2, | Solve any Two | 10 marks each |
| a) | Explain Bluetooth Protocol Stack Explain the terms PICONET and | |
| b) | Explain Various Hand over mech | anisms in Details. |
| | | |

Write a Short Note on UTRAN and UMTS Network

is a congestion Control algorithm that makes it possible to

| Q3 | Solve any Two | 10 marks each |
|----|---|--------------------------------------|
| a) | Explain IP Packet Delivery, What do you mean by Advertisement in terms of Mobile N/w | Agent Discovery and Agent |
| b) | Explain GSM Architecture in Detail. | |
| c) | Explain signal Propagation in detail with various eff Refraction, scatter, multipath propagation | fects such as shadowing, Reflection, |

| Q4 | Solve any Two 10 marks each |
|----|---|
| a) | Write a brief description on Various Generations of Telecommunication, Describe |
| | various applications of mobile devices for Vehicles, Emergency situation, Business, |
| | Entertainment. |
| b) | Write a Short Note on |
| , | a) HAWAII b) HMIPv6 |
| c) | What are the various Wireless LAN Threats and How we can secure the wireless |
| , | Networks |

Option A:

Option B: Option C:

Option D:

10.

Option B:

Less Transmission Power Only Local Interface

quickly recover lost Data Packets

Need of Handover

Option A: Fast Retransmit and Fast Recovery Fast Retransmit

Frequency Re-use

IN TCP/IP

c-19

University of Mumbai Examinations Summer 2022

27/05/2022 CO, Sub: AI

Time: 2hour 30 minutes Max. Marks: 80

SEM VICBUS

| Q1. | Choose the correct option for following questions. All the Questions are compulsory and carry equal marks |
|-----------|---|
| 1. | The computer program that simulates the thought process of humans is known as: |
| Option A: | Expert reason |
| Option B: | Personal information |
| Option C: | Expert system |
| Option D: | Human logic |
| 2. | is the heuristic function of greedy best-first search and is heuristic function of A* Algorithmic search. |
| Option A: | F(n)! = h(n) and $f(n) = h(n) + g(n)$ |
| Option B: | F(n)=h(n) and $f(n)=h(n)+g(n)$ |
| Option C: | F(n) > h(n) and f(n) = h(n) g(n) |
| Option D: | F(n) < h(n) and f(n) = h(n) + g(n) |
| 3. | The search strategy that uses a problem specific knowledge is known as |
| Option A: | Heuristic Search |
| Option B: | Informed Search |
| Option C: | Best-first Search |
| Option D: | All of the above Search |
| 4. | In which agent does the problem generator is present? |
| Option A: | Learning agent |
| Option B: | Simple-reflex agent |
| Option C: | Goal based agent |
| | |

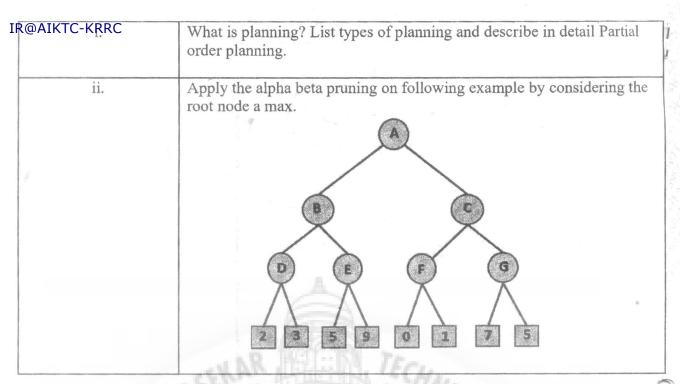
| 0 1 1 | |
|-----------|--|
| Option A: | Sociology |
| Option B: | Nurology |
| Option C: | Cognitive science |
| Option D: | Psychology |
| 6. | What is present in empty plan? |
| Option A: | Start |
| Option B: | Finish |
| Option C: | Modest |
| Option D: | Both Start and Finish |
| 7. | Which is the most straightforward approach for planning? |
| Option A: | Best first search |
| Option B: | Hill climbing search |
| Option C: | Depth first search |
| Option D: | State space search |
| | |
| 8. | What are you predicating by the logic $\forall x : \exists y : loyal_to(x,y)$? |
| Option A: | Everyone to loyal to all |
| Option B: | Everyone is loyal to someone |
| Option C: | Everyone is not loyal to someone |
| Option D: | Everyone is loyal |
| 9. | Which of the following is not a stage of knowledge engineering? |
| Option A: | Assemble the relevant knowledge |
| Option B: | Encode general knowledge about the domain. |
| Option C: | Identify the task. |
| Option D: | Fixing a problem. |
| A | |
| 10. | The father of AI is |

| Option B: | John McCarthy | |
|------------|----------------|--|
| IR@AIKTC-K | RRGssel Stuart | |
| Option D: | Andrew Ng | |

| Q2. | Solve any Four out of Six 5 marks each | |
|------------|--|--|
| (20 Marks) | | |
| A | Explain WUMPUS world environment giving its PEAS description. | |
| Λ | Explain how percept sequence is generated. | |
| В | Write a short note on conditional probability and its role in AI. | |
| C | What are the limitations of Hill Climbing Search and how that can be | |
| | overcome? | |
| D | Explain the concept of Supervised Learning. | |
| | Convert the following statements into predicate logic | |
| | 1. All kings are persons. | |
| E | 2. Every city in Maharashtra has temple. | |
| E | 3. An Apple a day keeps doctor away. | |
| | 4. Anything anyone eats and is not killed by is food. | |
| | 5. Square of 3 is 9. | |
| F | Explain the steps involved in Natural Language Processing. | |

| Q3. | Solve any Two Questions out of Three 10 marks each |
|--|--|
| (20 Marks) | |
| A-13 | Consider the following facts: 1. Steve only likes easy courses. 2. Science courses are hard. 3. All the courses in the basket_weaving department are easy. 4. BK301 is a basket_weaving course. Find by resolution that "What course would steve like?" |
| В | List down all agent types. Explain each with block diagram. |
| The state of the s | Apply A* algorithm on the following graph. Heuristic values are $h(S) = 15$, $h(A) = 14$, $h(D) = 12$, $h(B) = 10$, $h(E) = 10$, $h(C) = 8$, $h(F) = 10$, $h(G) = 0$. S is the start node and G is the goal node. |
| С | 3 A 4 B 4 C S S S S S S S S S S S S S S S S S S |

| Q4. (20 Marks) | | |
|-------------------|--|---|
| A | Solve any Two | 5 marks each |
| i. | Give types of parsing and cat ate the fish". | generate the parse tree for a sentence "The |
| ii. | Explain Simulated Annealing with suitable example. | |
| iii. | Differentiate between Info Algorithms. | rmed search and uninformed search |
| В | Solve any One | 10 marks each |





Of code: 94000

University of Mumbai

Examinations Commencing from May 2022

Program: Computer Engineering
Curriculum Scheme: Rev2019

Examination: TE Semester VI

Course Code: CSDLO6011 and Course Name: Internet of Things

Time: 2.30 hour Max. Marks: 80

31/05/2022

| Q1 | Choose the correct option for following questions. All the | |
|---|--|--|
| (20 Marks) | Questions are compulsory and carry equal marks | |
| 1. | Identify which is not TRUE about IoT | |
| Option A: | An IoT network is a collection of interconnected devices. | |
| Option B: | IoT stands for Interconnection of Things | |
| Option C: | IoT technology uses sensors and actuators: | |
| Option D: | IoT technology uses cloud storage to store data. | |
| 2. | The layers in IoT Reference Model by IoTWF occurs in the sequence - | |
| Option A: | Physical devices- Data Accumulation- Application- Edge Computing | |
| Option B: | Physical Devices-Data Accumulation- Edge Computing Application | |
| Option C: | Physical Devices-Edge Computing-Data Accumulation- Application | |
| Option D: | Application - Physical Devices- Edge Computing-Data Accumulation | |
| | | |
| 3. | The standardized architecture of M2M IoT does not achieve | |
| Option A: | Decompose Io F problem to smaller part | |
| Option B: | Identify different technologies at each layer and how they relate to on | |
| Option D. | another | |
| Option C: | Have a process of defining interfaces that leads to interoperability | |
| Option D: | Define a tiered security model that does not enforce the transition points | |
| Option D. | between levels | |
| | 407668630061053865865 | |
| 4, | The following protocol is used to link all devices in IoT- | |
| Option A: | UDP SASSASS VALUE | |
| Option B: | HTTP | |
| Option C: | TCPAP | |
| Option D: | COAP | |
| | | |
| 5. | MQTT stands for | |
| Option A: | Message Queue Telemetry Transport | |
| Option B: | Message Query Telemetry Transport | |
| Option C: | Meta Query Telemetry Transport | |
| Option D: | Multiple Query Telemetry Transport | |
| | | |
| 6.5 | Following is NOT an IoT Board- | |
| Option A: | Arduino Uno | |
| Option B: | Beagle Bone Black | |
| Option C: | Particle Photon | |
| Option D: | Microsoft Azure | |
| | | |
| J. S. | Which of the following Access network sublayer works in least range | |
| Option A: | HAN | |
| Option B: | FAN | |
| Option C: | PAN | |
| Option D: | LAN | |