| 7(2) | Name of the Subject: KNOWLEDGE SYSTEMS Subject Code: 17-714 |
|--------------|--|
| | Seat No: Student ID: SITUBN 16 Branch/Sem: T- VII |
| <u>Q</u> 2 | Attempt Any Two |
| | |
| | Iterative Depening DFS |
| | - It Combines the benefits of DFS & BFS Search algorithm. |
| | - It also provide memory efficiency & fast Search. |
| _ | IDDES also have some drawbach, it repeats all the week of previous page. |
| | lg., |
| | noden) |
| | ` |
| | (nodes) (nodec) |
| | |
| | (node F) (node F) (node G) |
| | (node) (node E) (node E) (node E) |
| | |
| | node y (node I) (hode k) |
| _ | - Hode Step 1 - Nool A |
| _ | - Note Step 1 - Noole A - Step 2 - Node B, Node C, Node A |
| | - 1 40 3 - 1000000 Res |
| Section – II | Date: 06 08/2021 Signature of Student: Page No: 01 |

| | Name of the Subject: KNONLFDGE SYSTEM Subject Code: IT-714 Seat No: ITO 76 Student ID: 18 ITUBNII6 Branch/Sem: IT-VII |
|--------------|--|
| | & le al. |
| | Skp4. |
| | Node A, NodeB, NodeH, Node I, Node E, |
| | Noole C, Noole F, Node G, Node K. |
| | 70000 (, 70000) , 10000 (, 10000) |
| | Ti (2 2/ 21 / 2/12) 1 / 2 / 120/14 |
| | Time complexity to O(bd); b= bruadle, d2 depth. |
| | |
| | - Space Complexes O(bd) |
| | |
| | - Ruggely Circle Read |
| | -> Breadth First Search |
| _ | It will search the Solution level by level. |
| l | lacksquare |
| - | - BFS vill provide Solution of it is exist. |
| | If there is more than I Solition then we can |
| | final optimal Solution. |
| | June Offinial Southern. |
| | -TI much lots of line it latin in language |
| | - It needs lots of time if Solution is far away |
| | Jon the got rode. |
| | > ea. (Start) |
| | |
| | (A) (B) |
| | |
| | |
| | |
| | ÉÉ |
| | |
| | (Erol) |
| Section – II | Date: 06/08/2021 Signature of Student: Page No: 02 |

| 10) | 1 | | KS ent ID: 18ITUBNII | Subject Code: IT-71 Branch/Sem: IT-VII | |
|--------------|-----------------|--------------------|---|---|-----------------------------------|
| | , , | Parths. — A - B | | 1-E-F-End. | |
| | 1 | , | ouly = 0(bd) | / CV CUDY | 1 |
| 02 | [c] | est First | 2 Search. | | |
| | Slep | Node | Clild. | Openlat | Close |
| | 1 2 3. | S C D | A(10), K(13), ((4) D(2) D(2) (-(0) | A, B, C A(10), B(18), D(2) A(10), B(13), F(1) A(10), B(13), G(0) | C (4). D(2). F(1) Slarel |
| | | | | | Stop geal reached. |
| | Vall | | - (-D-F-6) (4) (2) (1) (0 | | |
| Section – II | Date: <u>06</u> | 108/2021 | Signature of Student: | Page No: O | 3, |

| 10) | Name of the Subject: KS Subject Code: TT-714 |
|--------------|--|
| | Seat No: <u>ITO76</u> Student ID: <u>18 ITUBNI16</u> Branch/Sem: <u>IT-UII</u> |
| | - 100 Start with 5 |
| | So, For Node A = Ferriggon) |
| | F(n) = g(n) + h(n). S - A = 6 + 10 = 16 |
| | Node B S-B= S+13=18 |
| | Nocle C S-C= 10+4= 14. |
| | S-C= 10+4= 14. =) Now, Min. is S-C |
| | So, Selecting Mode C. |
| | · 6 Nocle D |
| | S-C-D=10+6+2=18 |
| | les the S-C-D get is S-A = 1916 |
| | So, Selieting S-A. |
| | Node E |
| | S-A-E= 6+6+4= 16 |
| | Date: 06 /08/2021 Signature of Student: The Page No. 04 |
| Section - II | Date: 06 /08 2021 Signature of Student: Page No: 04, |

| | Name of the Subject: KS Subject Code: T7-714 Seat No: T076 Student ID: 18TTUBNII6 Branch/Sem: T7-7 |
|--------------|---|
| | So, gang fotte & Selecting Node F. S-A-E-F=6+6+4+81 = 17 |
| | As we are going feather the f(n) value is |
| | So, re lant find the path for A7. |
| | |
| | |
| | |
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| 701 | Name of the Subject: Subject Code: |
|--------------|---|
| | Seat No: <u>ITO76</u> Student ID: <u>18 ITUBN 116</u> Branch/Sem: <u>IT - VII</u> |
| (03) | |
| 1(7.7) | [9] |
| | MOTHER + FATHER |
| | PARENT |
| | =) & Ludous?na no 100 |
| | =) b Supposing 100 PD |
| | -: 2R = T [R+P:T]. |
| | 126 2(3)=7 |
| | 126 2(3):7 T:6 (avy. Lo, 2T= R. or 2T= R+10 C ₁ |
| | le, 2T= R. ar2T=R+10C1 |
| | 80, R>3 |
| | |
| | ` |
| | |
| | |
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| Section – II | Date: 06 D& 2021 Signature of Student: Page No: 06 |