

| | Signature of Invigilator Signature of Officer-in-charge |
|----------------|--|
| | West Bengal State Council of Technical Education MCQ Question EXAMINATION |
| | Subject |
| | Roll |
| (A) | he three main components of a digital computer system are Memory, IO, DMA ALU, CPU, memory © CU, ALU, Register CPU Memory TO |
| e | CPU, Memory, IO |
| (i) 9 | second generation of computer used -> formsister DIC @ Vaccum tub |
| 1/600 | eessor of all computers, whether micro, mini or mainframe must e- @ ALU @ Primary Storage @ Control unit wall of these. |
| itsi | 47 @ Register mode & Immediate mode @ Direct addressing mode |
| 0 | Index addressing mode. |
| (V) T | rue instruction LOAD is a — @ zero addressy one abstraction instruction addressing instruction. |
| (vi) / | the number of fatch operation to execute instruction in monediali mode in - 80 0 1 0 2 @ none of there. |
| r (iib) ins | he instruction 1111 111100001100 is a - @ direct onemary reformation to indirect onemary reform instruction of indirect ordered instruction input-ordered instruction input-ordered instruction input-ordered instruction instruction input-ordered instruction in |
| We. | 13: Agistin Ref. > 0 111 , memory Ref. 11001 Input-output Ref - [1111] |

| (Viii) 01110000 represents @ 0 @ NaN @ +& @ -& |
|--|
| (ix) The largest floating point onumber that can be represented |
| ley 8 bit b - @01111111 @ 11111111 @ 01101111 @ 0111111 |
| (4) If 'n' is number of bits in exponent, the bias number can calculated as @ 27-1 @ 27 @ 27-1 |
| i) In Booth's algorithm, if the multipler has is bits then the roultiplicand should have -@ bit & n-bits @ n+1 bits @ 24? |
| (11) K-way Set associative mans - @ K-blocks one present in a set |
| (B) K- set one presult in a block (B) K- set are present in the Cache |
| I none of these |
| (iii) A typical modern computer uses — @ LSI Chip & VLSI chip |
| O values @ vacuum tube. |
| (Xiv) A subtractor is not usually present in a computer because- |
| (1) it is expensive D It is not possible to design & the adder will take care of subtraction (2) mone of the above. |
| reference instruction (b) Indirect memory reference instruction (c) register reference instruction (d) input-output gustruction. |
| [9/1 000 + to [110] menery ref. anshulin |

(xvi) If we want an addition/subtraction circuit to do subtraction, the initial value of carry in should be _ @ -1 \$60 @ 1 \$2

| (XVII) In auto increment addressing roade the value of the register is incremented by 1 the execution of the instruction 10 before Safter @ during @ not in the list. |
|---|
| (Viii) Virtual memory is — @ Primary memory Secondary memory. (D) both of there (2) none of these. |
| (Mix) Direct memory mapping is— To one to one mapping @ many to many mapping @ many to one mapping @ all of these. |
| (XX) In associative mapping technique, number of Comparators required is — @ 1 @ 2 Dequel to the number of boloks in main memory @ equal to the number of lines in Cache memy |
| (xi) If the negative number are stored in 2's complemented form, the range of numbers that can be stored in 8 |
| @ -128 to +128 @ -128 to +127 @ -127 to +128 @ -127 to +124 (ixii) The Cost of storing a bit is minimum in— |
| (xxli) The cost of storing a bit is minimum in- 9) Cache memory is Rogister of RAM us Hard disk |
| (XXIII) Tera is '2' to the Power of - @ 10 @ 20 @ 30 @ 40 |
| (XXIV) In normaliste addressing lese operand is placed— (in the CPU register Dafter opcode in un enstmelian (in onemory D in stack. |
| (*xv) The instruction ADD is addressing instruction 9 0 0 1 852 2 3 (*xvi) Negative rumber can be represented in _ @ Sign-magnitude form 1's Complet form @ 2's condent form @ all of the above. |