

NAND গেইট নিয়ে $C = AB$ বাস্তবায়ন :

$$Y = AB = \overline{\overline{AB}}$$



প্রশ্ন ১১। সুমি, সুমির বাবা ও মায়ের বয়স যথাক্রমে $(10)_{10}$, $(100)_{10}$ এবং $(2F)_{16}$ বছর।

- ক. বিশিডি কোড কী?
- খ. "২"র পরিপূরক করলে সংখ্যার শুধুমাত্র ডিফের পরিবর্তন হয়"– সুমিয়ে লেখ।
- গ. সুমির মায়ের বয়স অষ্টাল সংখ্যায় রূপান্তর কর।
- ঘ. সুমির বাবার বয়স সুমির বয়সের কত গুণ বিয়োজন কর।

[সিলেট জেড ২০১৯]

১১নং প্রশ্নের উত্তর

ক. দশমিক সংখ্যাকে বাইনারি সংখ্যায় প্রকাশের জন্য যে কোড ব্যবহার করা হয়, তাই BCD (Binary Coded Decimal) কোড।

খ. ২ এর পরিপূরক করলে সংখ্যার শুধুমাত্র ডিফের পরিবর্তন হয়। ডিজিটাল বর্তনীতে সরল করে, ২ এর পরিপূরক পঠনে ডিফযুক্ত সংখ্যা এবং ডিফবিহীন সংখ্যা যোগ করার জন্য একই বর্তনী ব্যবহার করা যায়। ২ এর পরিপূরক পঠনে যোগ ও বিয়োজের জন্য একই বর্তনী ব্যবহার করা যায়। তাই আধুনিক কম্পিউটারে ২ এর পরিপূরক পদ্ধতি ব্যবহার করা হয়।

গ. সুমির মায়ের বয়স $(2F)_{16}$ । নিচে তা অষ্টাল সংখ্যায় রূপান্তর করা হলো—

$$\begin{array}{r} (2F)_{16} = (7)_{10} \\ \begin{array}{cc} 2 & F \\ \downarrow & \downarrow \\ 0010 & 1111 \\ \hline 0 & 5 & 7 \end{array} \\ \therefore (2F)_{16} = (57)_{10} \end{array}$$

ঘ. সুমির বাবার বয়স $(100)_{10}$ এবং সুমির বয়স $(10)_{10}$ বছর। নিচে সুমির বাবার বয়স সুমির বয়সের কত গুণ তা বিয়োজন করে দেখানো হলো—

$$\begin{aligned} (100)_{10} &= (7)_{10} \\ (100)_{10} &= 1 \times 8^2 + 0 \times 8^1 + 0 \times 8^0 \\ &= 64 + 0 + 0 = 64 \\ \therefore (100)_{10} &= (64)_{10} \\ (10)_{10} &= 1 \times 16^1 + 0 \times 16^0 \\ &= 16 \\ \therefore (10)_{10} &= (16)_{10} \end{aligned}$$

অর্থাৎ সুমির বাবার বয়স সুমির বয়সের $64/16 = 4$ গুণ।

প্রশ্ন ১২।

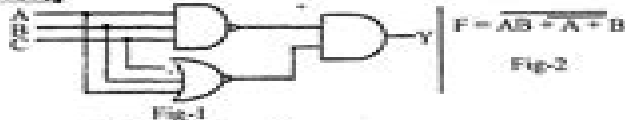


Fig-2

- ক. কাউন্টারের মোত কী?
- খ. পাঁচ ইনপুটের অ্যান্ড গেইট বাস্তবায়নে কয়টি ন্যান্ড গেইট প্রয়োজন? সুমিয়ে লেখ।
- গ. Y এর সরলীকৃত মান নির্ণয় কর।
- ঘ. "F-এর সরলীকৃত মানের গেইটটি বাইনারি কোডে ব্যবহৃত হয়"– বিয়োজন কর।

[সিলেট জেড ২০১৯]

১২নং প্রশ্নের উত্তর

ক. একটি কাউন্টার প্রথম ধাপ থেকে শুরু করে আবার প্রথম ধাপে ফিরে আসতে যতগুলো ধাপ প্রয়োজন হয়, তাকে ঐ কাউন্টারের মোত বলে।

খ. পাঁচ ইনপুট অ্যান্ড গেইট বাস্তবায়নে দুইটি NAND গেইটের প্রয়োজন হবে।



$$Y = \overline{ABCDE} = ABCDE$$

$$\begin{aligned} Y &= \overline{ABC} \cdot \overline{A+B+C} \\ &= (\overline{A+B+C}) \overline{ABC} \\ &= \overline{A} \overline{B} \overline{C} + \overline{A} B \overline{C} + \overline{A} B C \\ &= \overline{A} B \overline{C} + \overline{A} B C + \overline{A} B C \\ &= \overline{A} B C \end{aligned}$$

$$\begin{aligned} F &= \overline{AB + A + B} \\ &= \overline{AB} \cdot \overline{A+B} \\ &= (\overline{A} + \overline{B}) (\overline{A} + \overline{B}) \\ &= \overline{A} \overline{A} + \overline{A} \overline{B} + \overline{A} \overline{B} + \overline{B} \overline{B} \\ &= 0 + \overline{A} \overline{B} + \overline{A} \overline{B} + 0 \\ &= \overline{A} \overline{B} + \overline{A} \overline{B} \\ &= \overline{A} \overline{B} \end{aligned}$$

বাইনারি কোড অর্থাৎ হাক্স অজ্ঞাতারে X-OR গেইট এবং AND গেইট ব্যবহৃত হয়। এর মধ্যে X-OR গেইটের মাধ্যমে বাইনারি কোডগুলি বের করা যায়।

প্রশ্ন ১৩। ICT শিক্ষক রেজিতে সংখ্যা পদ্ধতি পড়ানছিলেন। এক ছাত্রকে রোল নম্বর জিজ্ঞাসা করায় সে $(375)_{10}$ উত্তর দিল। শিক্ষক ছাত্রের রোল নম্বরটিকে ৮টি হেলিক ডিফবিহীন সংখ্যা পদ্ধতিতে রূপান্তর করে দেখালেন। ছাত্রটির পত বছরের রোল নম্বর $(17C)_{16}$ জানতে পেয়ে শিক্ষক তার শেষ পরীক্ষার ফলাফল ভালো হয়েছে অথবা করলেন।

- ক. অজ্ঞাতার কী?
- খ. একটি ৪-বিট বাইনারি কাউন্টার কতটি সংখ্যা গুণতে পারে– ব্যাখ্যা কর।
- গ. শিক্ষকের প্রদর্শিত সংখ্যা পদ্ধতিতে বর্তমান রোল নম্বরটি রূপান্তর কর।
- ঘ. কোডের মাধ্যমে রোল নম্বরছত্রের পার্থক্য নির্ণয় করে শিক্ষকের অথবা ফলাফল কর।

[ককিলা জেড ২০১৯]

১৩নং প্রশ্নের উত্তর

ক. যে সমস্যা বর্তনীর সাহায্যে কোডের কাজ করা হয় তাকে অজ্ঞাতার বলে।

খ. একটি কাউন্টার প্রথম ধাপ থেকে শুরু করে আবার প্রথম ধাপে ফিরে আসতে যতগুলো ধাপ প্রয়োজন হয় তাকে ঐ কাউন্টারের মোত নম্বর বলে। কাউন্টারে ৪টি ট্রিপ ট্রল থাকলে তার মডিউলাস 2^4 টি হবে। সাধারণত একটি কাউন্টারের মোত নম্বর 2^n । কাউন্টারে ৪টি ট্রিপ ট্রল থাকলে তার মডিউলাস $2^4 = 16$ টি হবে।

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Ensheng Dong



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