

খ সেট

জুনিয়র স্কুল পরীক্ষাকেন্দ্র নতুনগাঁও, ২০১৭  
সনিত (মুদ্রণশীল + অসনিত) (অনুষ্ঠান)

বিষয় কোড : 

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সময়—৩ ঘণ্টা

পূর্বসীল—৭৩+২০+১০০

মুদ্রণশীল পত্র

মাস—৭০

শ্রীষ্টব্য :—একটি প্রশ্নের সাথেই এরূপে পূর্বসীল দেওয়া থাকবে : এদের উল্লিখকৃতের অনুযায়ী সনিতকারে পত্র এবং সনিতের প্রশ্নের উত্তর দাও।  
ক, খ ও গ বিভাগ থেকে দুইটি করে এবং ঘ বিভাগ থেকে একটিকেই মোট পাঁচটি প্রশ্নের উত্তর দিতে হবে।

ক বিভাগ—পাঠ্যপুস্তক

সময়

১.  $৭, ১৬, ২৫, ৩৬, ৪৯, \dots$ 
  - (ক) ২৫ এবং ৩৬-কে দুইটি বর্গের সমষ্টিরূপে প্রকাশ কর। ২
  - (খ) অসীমতার ২০তম সংখ্যক নির্ণয় কর। ৪
  - (গ) অসীমতার ১৫ ও ৬০-টি সংখ্যার সমষ্টি নির্ণয় কর। ৪
২. এক ব্যক্তি বার্ষিক শতকরা ১০ টাকা মূল্যের ৬০০০ টাকা ও বছরের অন্য ব্যয়কে জমা রাখলেন।
  - (ক) ১৫ বছরের মূল্য-অংশ নির্ণয় কর। ২
  - (খ) মূল মূল্য ও চতুর্ভুক্তি মূল্যের পার্থক্য নির্ণয় কর। ৪
  - (গ) একই বছর মূল মূল্যের উক্ত অংশ কত বছরে মূল্য-অংশে নেতৃত্ব পাবে? ৪
৩. একটি ঘরের দৈর্ঘ্য প্রস্থের ৪ গুন। প্রতি কার্টিয়ার ১২-৩০ টাকার মধ্যে ঘরের থেকে কাপের দিগে চাকরিতে যেটি ৩২০০ টাকা ব্যয় হয়।
  - (ক) ঘরের ক্ষেত্রফল নির্ণয় কর। ২
  - (খ) ঘরের দৈর্ঘ্য ও প্রস্থ নির্ণয় কর। ৪
  - (গ) ঘরের উচ্চতা ৩ মিটার এবং এর দেওয়ালগুলো ২০ সে. মি. পুরু হলে তার দেওয়ালের আয়তন নির্ণয় কর। ৪

খ বিভাগ—ইন্ডাক্টিভ

৪.  $x^2 - \sqrt{3}x + 1 = 0$ 
  - (ক)  $x + \frac{1}{x}$  এর মান নির্ণয় কর। ২
  - (খ) সমাধান কর যে,  $x^3 - \frac{1}{x^3} = 4$  ৪
  - (গ)  $x^6 - \frac{1}{x^6}$  এর মান নির্ণয় কর। ৪
৫.  $A = x^2 - 5x + 6, B = x^2 - 9, C = x^2 + 4x + 3$ 
  - (ক)  $\frac{C}{x^2 + x}$  কে লঘিষ্ঠ আকারে প্রকাশ কর। ২
  - (খ) সরল কর।  $\frac{1}{A} + \frac{1}{B}$  ৪
  - (গ)  $\frac{1}{A}, \frac{1}{B}, \frac{1}{C}$  কে সাধারণ হরবিশিষ্ট ভগ্নাংশে প্রকাশ কর। ৪
৬. কোন ভগ্নাংশের লবের সাথে ৩ যোগ করলে এর মান ১ হয়। আবার হরের সাথে ২ যোগ করলে এর মান  $\frac{1}{2}$  হয়।
  - (ক) ভগ্নাংশটিকে  $\frac{x}{y}$  ধরে সমীকরণ জোড় পড়ান কর। ২
  - (খ) ভগ্নাংশটি নির্ণয় কর। ৪
  - (গ) লেখকটির সাহায্যে সমীকরণ জোড়ের সমাধান কর। ৪

Handwritten work for question 4:

$$x^2 - \frac{1}{x^2} = 4$$

$$(x^2)^2 - \left(\frac{1}{x^2}\right)^2 = 4$$

$$= (x^2 - \frac{1}{x^2})^2 - 2 \cdot x^2 \cdot \frac{1}{x^2} = 4$$

$$(x^2)^2 - \left(\frac{1}{x^2}\right)^2 = 4$$

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**CH Cherryholmes**



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web may 6 2012 a linear feedback shift register lfsr is a shift register whose input bit is the output of a linear function of two or more of its previous states taps an lfsr of length  $m$  consists of  $m$  stages numbered  $0$   $1$   $m-1$  each capable of storing one bit and a clock controlling data exchange

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web linear feedback shift registers lfsrs these are  $n$  bit counters exhibiting pseudo random behavior built from simple shift registers with a small number of xor gates used for random number generation counters error checking and correction advantages very little hardware high speed operation example 4 bit lfsr  $q_4$   $q_3$   $q_2$   $q_1$   $q_0$

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web lfsr stands for linear feedback shift register and it is a design that is useful inside of fpgas lfsrs are simple to synthesize meaning that they take relatively few resources and can be run at very high clock rates inside of an fpga there are many applications that benefit from using an lfsr including counters test pattern generators

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web the present lfsr linear feedback shift register is modified by using the transition controller module the transition controller is utilized to raise the interrelation between successive test patterns

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web mar 30 2017 a linear feedback shift register lsfr is a shift register that takes a linear function of a previous state as an input most commonly this function is a boolean exclusive or xor the bits that affect the state in the other bits are known as taps lsfrs are used for digital counters cryptography and circuit testing advertisements

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web lfsrs linear feedback shift registers provide a simple means for generating nonsequential lists of numbers quickly on microcontrollers generating the pseudo random numbers only requires a right shift operation and an xor operation figure 1

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web linear feedback shift registers lfsrs have nice statistical properties and a well developed theory they are also cheap and fast on the other hand it is clear that every periodic sequence can be generated by a linear feedback shift register simply take an lfsr of the same size as the period it is therefore natural to use the length

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web linear feedback shift registers lfsrs efficient design for test pattern generators output response analyzers also used in crc ffs plus a few xor gates better than counter external feedback lfsr fewer gates higher clock frequency q d q d q d q d q two types of lfsrs ck ck ck ck external feedback internal feedback

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web oct 28 2019 the algorithm couldn't be entirely linear because it would get stuck it would produce nothing but zeros forevermore once it encountered an input sequence of all zeros so technically a lfsr is an nearly always linear feedback shift register it's linear for  $2^n - 2$  inputs and nonlinear for 2 special inputs a lfsr is more general

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web in digital signal processing a linear feedback shift register or lfsr is a shift register where the input bit is a linear function of its previous state a common linear function of single bits is the xor

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web a linear feedback shift register lfsr is a shift register in which some of its outputs are connected to the input through some logic gates typically an xor a wide variety of bit patterns can be generated inexpensively including pseudo random sequences can be used as a noise generator

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web in computing a linear feedback shift register lfsr is a shift register whose input bit is a linear function of its previous state the most commonly used linear function of single bits is exclusive or xor thus an lfsr is most often a shift register whose input bit is driven by the xor of some bits of the overall shift register value

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web feb 17 2013 the berlekamp massey algorithm is an iterative algorithm that solves the following problem given a sequence  $s_0 s_1 s_2 \dots s_{n-1}$  of elements of a field find the shortest linear feedback shift register lfsr that generates this sequence here lfsr is a linear array of  $n$  elements with initial value