

জুনিয়র স্কুল সার্টিফিকেট পরীক্ষা বরিশাল বোর্ড-২০১৭

গণিত

বিষয় কোড :

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সময়-২ ঘণ্টা ৩০ মিনিট

সৃজনশীল প্রশ্ন

মান-৭০

দ্রষ্টব্য : ক বিভাগ হতে ২টি, খ বিভাগ হতে ২টি, গ বিভাগ হতে ২টি এবং ঘ বিভাগ হতে ১টি করে মোট ৭টি প্রশ্নের উত্তর দিতে হবে।।

ক-বিভাগ : পাটিগণিত

- ১। সমান দৈর্ঘ্যের কাঠির সাহায্যে নিচের জ্যামিতিক প্যাটার্নগুলো তৈরি করা হয়েছে :



- (ক) উদ্দীপকের প্রথম চিত্রটি তৈরি কর এবং কাঠির সংখ্যা নির্ণয় কর। ২
- (খ) উদ্দীপকের আলোকে একটি বীজগণিতীয় রাশি নির্ণয় কর এবং ৫০তম প্যাটার্ন তৈরিতে কতগুলো কাঠি প্রয়োজন— তা নির্ণয় কর। ৪
- (গ) প্রথম ১০০টি চিত্র তৈরি করতে মোট কতগুলো কাঠি প্রয়োজন—তা নির্ণয় কর। ৪

- ২। মুহিত সাহেব বার্ষিক ১২% মুনাফায় ৮০,০০০ টাকা ৩ বছরের জন্য ব্যাংকে জমা রাখলেন।

- (ক) ১২% কে সাধারণ ভগ্নাংশে ও দশমিক ভগ্নাংশে প্রকাশ কর। ২
- (খ) সরল মুনাফার ক্ষেত্রে মুনাফা-আসল নির্ণয় কর। ৪
- (গ) সরল মুনাফা ও চক্রবৃদ্ধি মুনাফার পার্থক্য নির্ণয় কর। ৪

বাকী পৃষ্ঠাগুলি নিচের লিঙ্কে ক্লিক করে ডাউনলোড করে পড়ুন।

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Michal Rosen-Zvi



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web fig 1 shown below is the block diagram and circuit diagram of the automatic servo control voltage stabilizer connected to an appliance or load the stabilizer sizes generally with its rating which is given in kva the regulating unit consists of a toroidal type variable autotransformer

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web circuit diagram 1 here is another simple circuit of autocut for manual stabilizer in this circuit there are small changes from the first circuit if you use a 12 0 12 transformer then use a 24v relay you can also check this circuit by connecting with a 0 12 transformer with a 12v relay use 500ma to 1 a transformer circuit diagram 2

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web apr 16 2021 it is completely the designer s choice that how many taps will be used for the voltage stabilizer but a suitable range of the lowest taps is 5 for a 220v system these 5 taps are usually kept as 150v 180v 220v 280v 260v 0v 5 relays are used for this type of voltage stabilizers

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web feb 21 2015 circuit description of automatic voltage stabilizer the power supply to the circuit is given from the secondary coil of transformer x 2 as the voltage between two tappings is 20v it is directly rectified using a bridge rectifier using diode d 1 through d 4