

সেট-০২

জুনিয়র স্কুল সার্টিফিকেট পরীক্ষা

বাংলাদেশ ও বিশ্বপরিচয় (সুজনশীল + বহুনির্বাচনি অধীক্ষা)

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সময়—৩ ঘণ্টা

পূর্ণমান—৭০+৩০=১০০

সুজনশীল প্রশ্ন

মান—৭০

দ্রষ্টব্য : ভান পাশের সংখ্যা প্রশ্নের পূর্ণমান জ্ঞাপক। প্রদত্ত উদ্ভীপকগুলো মনোযোগসহকারে পড় এবং সংশ্লিষ্ট প্রশ্নের উত্তর দাও। যে কোনো সত্যটি প্রশ্নের উত্তর নিতে হবে।

- ১। অষ্টম শ্রেণির শিক্ষার্থীরা ঢাকার একটি জাদুঘর পরিদর্শনে যায়। প্রথমে তারা একটি কক্ষে ঘাশের দৃশ্যের সাথে চিত্রিত কিছু তথ্য পড়ে ভ্যাল ভরতে নৃশংসে হত্যার কথা জানতে পারে। আর একটি দৃশ্যে ঐ সময়ে আমাদের সহায়তাকারী একটি বাহিনীর যুদ্ধ অভিযান দেখে। সবশেষে তারা দুটি দেশের সামরিক কমান্ডারদের দলিল স্বাক্ষরের দৃশ্য দেখে মুগ্ধ হয়।
- (ক) ন্যাপ (NAP) এর পূর্ণরূপ কী?
- (খ) মুক্তিযুদ্ধের সরকার মুক্তিযুদ্ধকালীন 'উপদেষ্টা পরিষদ' গঠন করে কেন?
- (গ) শিক্ষার্থীদের প্রথম দেখা দৃশ্যটি মুক্তিযুদ্ধের কোন ঘটনার ইঙ্গিত করে? ব্যাখ্যা কর।
- (ঘ) উদ্ভীপকের শেষাংশে দেখা ঘটনাটি এ দেশের স্বাধীনতা অর্জনের সাফল্য বহন করে—মূল্যায়ন কর।
- ২। নৃ-গোষ্ঠীর নাম ও জীবনধারণের কিছু বৈশিষ্ট্য :

'ক'	'খ'	'গ'
বেশির ভাগ মানুষ স্টার সানড্রে পালন করে।	পানি দিয়ে বিশেষ একটি উৎসব পালন করে।	হেলমেটে উভয়ের হাতে ও গলায় গহনা দেখা যায়।

- (ক) আদাম কাকে বলে?
- (খ) ডাকমাসের অবিক্রাশে গ্রামে কিয়ৎ রয়েছে কেন?
- (গ) 'ক' দ্বারা কোন নৃ-গোষ্ঠীর ইঙ্গিত পাওয়া যায়? ব্যাখ্যা কর।
- (ঘ) 'খ' ও 'গ' চিত্রিত নৃ-গোষ্ঠীর সাংস্কৃতিক জীবনের মধ্যে ভিন্নতা আছে কী? তুলনামূলক আলোচনা কর।

চপল বাবা-মার সাথে জাতীয় জাদুঘরে গিয়ে একটি গ্যালারিতে সুলতানি ও মোঘল আমলের তামা-তুপার মুদ্রা, কারুকার্য করা পোশাক, যুদ্ধে ব্যবহারের হাতিয়ার দেখে। পরে তারা পুরনো ঢাকার একটি উদ্যানে গিয়ে ইউরোপের একটি শক্তিশালী রাষ্ট্রের শাসনের বিরুদ্ধে সংঘটিত প্রথম আন্দোলনের কথা জানতে পারে যা উক্ত উদ্যানের সাথে সম্পর্কিত। উক্ত আন্দোলনে এদেশীয় দেশদ্রোহী সৈনিকরা জীবন দেয়।

- (ক) সাংস্কৃতিক কাকে বলে?
- (খ) বিভিন্ন দেশের সাংস্কৃতিকসমূহের মধ্যে পার্থক্য দেখা যায় কেন?
- (গ) চপলের পরিবারের দেখা জাদুঘরের জিনিসগুলো কোন সম্পদের অন্তর্ভুক্ত? ব্যাখ্যা কর।
- (ঘ) উদ্ভীপকে ইঙ্গিতকৃত বিদ্রোহের ফলাফল বিশ্লেষণ কর।

৪।



চিত্র-A



চিত্র-B

- (ক) জীব বৈচিত্র্য কী?
- (খ) জলজ প্রাণীর বংশবিস্তার বাধামুক্ত হচ্ছে কেন?
- (গ) চিত্র-'A' তে প্রদর্শিত শিল্পটির বর্ণনা দাও।
- (ঘ) আমাদের দেশের প্রেক্ষাপটে চিত্র-'B' তে প্রদর্শিত শিল্পটি অত্যন্ত সম্ভাবনাময়—বক্তব্যটি বিশ্লেষণ কর।

# Jsc Exam Question Paper 2014 For Dhaka Board

**Joacim Rocklöv**



**Jsc Exam Question Paper 2014 For Dhaka Board:**

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web we can think graphs of absolute value and quadratic functions as transformations of the parent functions  $x$  and  $x^2$  importantly we can extend this idea to include transformations of any function whatsoever this fascinating concept allows us to graph many other types of functions like square cube root exponential and logarithmic functions

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web the range of a quadratic function written in standard form  $f(x) = a(x - h)^2 + k$  with a positive  $a$  value is  $f(x) \geq k$  the range of a quadratic function written in standard form with a negative  $a$  value is  $f(x) \leq k$

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web describing transformations of quadratic functions quadratic function is a function that can be written in the form  $f(x) = a(x - h)^2 + k$  where  $a \neq 0$  the u shaped graph of a quadratic function is called a parabola in section 1 1 you graphed quadratic functions using tables of values

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web a quadratic function is in what shape 1 the parent function of a quadratic equation is  $f(x) = x^2$  how would a shift to the left three units be written 2 how would you write the equation for

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web more importantly these equations show the two special forms of these types of functions form equation uses standard form  $y = ax^2 + bx + c$  simplified form vertex form  $y = a(x - h)^2 + k$  transformations of parent function sketch graphs determine equation from a graph transformation effects when a quadratic function is given in the

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web the parent function of the quadratic family is  $f(x) = x^2$  a transformation of the graph of the parent function is represented by the function  $g(x) = a(x - h)^2 + k$  where  $a \neq 0$  identifying graphs of quadratic functions 6 6 4 4 communicate your answer 4 2 how do the constants  $a$   $h$  and  $k$  affect the graph of the quadratic function  $g(x) = a(x - h)^2 + k$

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web 1 explain the advantage of writing a quadratic function in standard form 2 how can the vertex of a parabola be used in solving real world problems 3 explain why the condition of  $a \neq 0$  is imposed in the definition of the quadratic function  
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web converting standard form of quadratic function into vertex form a quadratic function  $f(x) = ax^2 + bx + c$  can be easily converted into the vertex form  $f(x) = a(x - h)^2 + k$  by using the values  $h = -\frac{b}{2a}$  and  $k = f(-\frac{b}{2a})$  here is an example

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web the standard form of a quadratic function presents the function in the form  $f(x) = a(x - h)^2 + k$  where  $(h, k)$  is the vertex because the vertex appears in the standard form of the quadratic function this form is also known as the vertex form of a quadratic function

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web it can be used as the starting function for transformations on quadratics 1 what is the vertex of the function  $f(x) = 2x^2 - 8x + 2$  which statement is true about the function  $f(x) = x^2 + 10$

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web when a quadratic function is represented in vertex form following points are to be noted if  $h > 0$  graph shifts right by  $h$  units if  $h < 0$  graph shifts left by  $|h|$  units if  $k > 0$  graph shifts upwards by  $k$  units if  $k < 0$  graph shifts downwards by  $|k|$  units

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web the last example shows us that to graph a quadratic function of the form  $f(x) = x^2 + k$   $f(x) = x^2 - k$  we take the basic parabola graph of  $f(x) = x^2$   $f(x) = x^2$  and vertically shift it up  $k$  0  $k$  0 or shift it down  $k$  0  $k$  0

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web quadratic functions and transformations we have learned that there are two forms of the quadratic function  $f(x) = ax^2 + bx + c$  general form 20  $ax^2 + bx + c$  standard form 1 finding key features of a quadratic function

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web oct 24 2011 identify the vertex  $(h, k)$  2 choose another point on the graph  $(x, y)$  3 plug  $h$   $k$   $x$  and  $y$  into and solve for  $a$  4 use  $h$   $k$  and  $a$  to write the vertex form of the quadratic function 13 example write a quadratic function to model each graph 14 example write a quadratic function to model each graph