

১৪। কোন ধরনের শিক্ষার মাধ্যমে মানবসম্পত্তি প্রতিরোধ সম্ভব?

- (ক) ধর্মীয় ও সামাজিক (খ) ধর্মীয় ও নৈতিক
(গ) নৈতিক ও সামাজিক (ঘ) সামাজিক ও মানসিক

১৫। মানকে আসক্ত ব্যক্তির নিজের ক্ষতির পাশাপাশি কার ক্ষতি করে?

- (ক) আত্মীয় বন্ধনের (খ) নিকট আত্মীয়ের
(গ) প্রতিবেশীর (ঘ) সমাজ ও রাষ্ট্রের

১৬। বাংলাদেশের জনসংখ্যা নীতির মূল লক্ষ্য ও উদ্দেশ্য কয়টি?

- (ক) ৫টি (খ) ৭টি
(গ) ৯টি (ঘ) ১১টি

১৭। যে কারণে আগের তুলনায় বর্তমানে জনসংখ্যা বৃদ্ধির হার কমে এসেছে—

- (i) বিনেশি সহায়তা (ii) পরিবার পরিকল্পনা
(iii) মানুষের ক্রমবর্ধমান সচেতনতা

নিচের কোনটি সঠিক?

- (ক) i ও ii (খ) ii ও iii
(গ) i ও iii (ঘ) i, ii ও iii

১৮। মারমারা কোন ধর্মের অনুসারী?

- (ক) বৌদ্ধ (খ) হিন্দু
(গ) খ্রিস্টান (ঘ) ইসলাম

১৯। সাংগাই উৎসব পালন করা হয় কখন?

- (ক) চৈত্র সংক্রান্তিতে (খ) পৌষ পার্বণে
(গ) বিয়ের অনুষ্ঠানে (ঘ) নীলা লাভের অনুষ্ঠানে

২০। রাজবংশী কী?

- (ক) বৌদ্ধদের সনাতন নাম (খ) সূর্য দেবতার নাম
(গ) আবাইনদের অগ্নি নাম (ঘ) ক্ষুদ্র জাতিসত্তার নাম

২১। UNESCO এর সদর দপ্তর কোথায়?

- (ক) জেনেভা (খ) প্যারিস
(গ) নিউইয়র্ক (ঘ) জেন্না

২২। UNICEF যে লক্ষ্যে কাজ করে—

- (i) মাতৃ ও শিশু স্বাস্থ্য
(ii) প্রাথমিক স্বাস্থ্য পরিচর্যা
(iii) পুষ্টি ও রোগ প্রতিরোধ

নিচের কোনটি সঠিক?

- (ক) i ও ii (খ) ii ও iii
(গ) i ও iii (ঘ) i, ii ও iii

২৩। নিচের কোনটি বনিজ সম্পদ?

- (ক) পানি (খ) সিমেন্ট
(গ) টিনামাটি (ঘ) জৈবসার

২৪। বাংলাদেশে প্রথম চিনিকল কোনটি?

- (ক) রংপুর চিনিকল (খ) রাজশাহী চিনিকল
(গ) চন্দ্রঘোনা চিনিকল (ঘ) নাটোর গোপালপুর চিনিকল

* অনুচ্ছেদটি পড়ে ২৫ ও ২৬ নং প্রশ্নের উত্তর দাও :
বাংলাদেশে উর্বর মাটি, নদ-নদী এবং নানা প্রজাতির প্রাণী রয়েছে। সুষ্ঠু পরিকল্পনা প্রণয়ন করে এগুলো ব্যবহার করতে পারলে এ দেশ ঠিকই সমৃদ্ধ হবে।

২৫। উদ্দীপকে কোন বিষয়টির ইঙ্গিত পাওয়া যায়?

- (ক) সাংস্কৃতিক নিক (খ) প্রাকৃতিক সম্পদ
(গ) মানবসৃষ্ট সম্পদ (ঘ) সঠিক সম্পদ

২৬। এ দেশ সমৃদ্ধ হতে পারে যদি উদ্ভেদিত উপাদানগুলোর—

- (ক) সচেতন ব্যবহার নিশ্চিত হয়
(খ) খুব কম ব্যবহার হয়
(গ) শিকিত সমাজ হয়
(ঘ) খুব ধীরে ধীরে ব্যবহার হয়

২৭। বর্তমান বিশ্ব কী নির্ভর?

- (ক) মোবাইল (খ) শিক্ষা
(গ) শিল্প (ঘ) প্রযুক্তি

২৮। মুজিব নগর সরকারের রাষ্ট্রপতি ছিলেন—

- (ক) বলাবহু শেখ মুজিবুর রহমান
(খ) তালউদ্দীন আহমদ
(গ) ইউসুফ আলী (ঘ) এ.এইচ.এম. কামরুজ্জামান

২৯। বলাভর কার্যকর হয় কত সালে?

- (ক) ১৮৯৯ (খ) ১৯০৩
(গ) ১৯০৫ (ঘ) ১৯১১

৩০। সেনরা কোথা থেকে এসেছিল?

- (ক) উত্তর ভারত (খ) দক্ষিণ ভারত
(গ) পাঞ্জাব (ঘ) সিন্ধু

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each of the vectors of the standard basis by t then inserting the result into the columns of a matrix in other words for
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origin of a two dimensional cartesian coordinate system

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special kind of transformation of the plane called linear transformation by telling us where the vectors $\begin{pmatrix} 1 \\ 0 \end{pmatrix}$ and $\begin{pmatrix} 0 \\ 1 \end{pmatrix}$ are
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web orthogonality of the transformation matrix Q as in the two dimensional case the transformation matrix is orthogonal $Q^T Q = I$ this follows from 1 5 11 1 5 13 example consider a cartesian coordinate system with base vectors e_i a coordinate transformation is carried out with the new basis given by \tilde{e}_i

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web coordinates of v the standard coordinates are v_3 are the b_1 b_2 are assumed if no other basis is specified this means $v = v_1 e_1 + v_2 e_2 + v_3 e_3$ if $\tilde{e}_1, \tilde{e}_2, \tilde{e}_3$ is a basis of \mathbb{R}^3 then the matrix S which contains the vectors \tilde{e}_k as column vectors is called the coordinate change matrix

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web sep 17 2022 consider the matrix transformation $T: \mathbb{R}^2 \rightarrow \mathbb{R}^2$ that assigns to a vector x the closest vector on horizontal axis as illustrated in figure 2 6 20 this transformation is called the projection onto the horizontal axis

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web and now that we know what d is we can now solve for a we can now solve for the transformation matrix with respect to the standard basis so to do that we have to figure out c and c inverse so c remember c is just the change of basis matrix and all that is is the basis vectors it's just a matrix with the basis vectors in the column

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web any vector v represented in b can be transformed to a representation in c as follows under the transformation of basis notice that the superscript on the transformation matrix m and the subscript on the coordinate vector v are the same and seemingly cancel leaving the remaining subscript

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