

**PUNJAB PUBLIC SERVICE COMMISSION  
COMBINED COMPETITIVE EXAMINATION  
FOR RECRUITMENT TO THE POSTS OF  
PROVINCIAL MANAGEMENT SERVICE, ETC.**

**GEOGRAPHY (OPTIONAL) PAPER-I**

**TIME ALLOWED: 3 HOURS**

**MAXIMUM MARKS: 100**

**Note:** Attempt in any FIVE questions. Attempt in English or Urdu.

- Q.1:** How the distribution of land and water bodies controls the global environment? Discuss. (20)
- Q.2:** Write a detailed note on the formation and types of rocks. (20)
- Q.3:** Explain the process and types of weathering. Also discuss the major features produced by wind action. (20)
- Q.4:** What are the major types of glaciers? What features are produced by the glacial deposits? Explain. (20)
- Q.5:** Write a note on, the Heat Budget. How it controls the global wind system? Discuss. (20)
- Q.6:** What is the difference between Air mass and Front? Also discuss their salient features. (20)
- Q.7:** Write a detailed note on the composition, Temperature and Salinity of ocean waters. (20)
- Q.8:** Write a note on the formation, factors and types of Soils on earth. (20)
- Q.9:** Write a detailed note on the Rainforest Biome of the World. (20)
- Q.10:** Write short notes on any two of the following:
- (i) Geological Time Scale (10)
  - (ii) Mass Wasting (10)
  - (iii) Hydrological Cycle (10)
  - (iv) GIS & RS Techniques in Geography. (10)

# Grade 1mid Year Geography Question Paper

**Tao Wei**



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web in linear algebra a rotation matrix is a transformation matrix that is used to perform a rotation in euclidean space for example using the convention below the matrix rotates points in the xy plane counterclockwise through an angle  $\theta$  about the origin of a two dimensional cartesian coordinate system

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web coordinates of  $v$  the standard coordinates are  $v_i$  3 are the  $b_i$  1  $b_i$  are assumed if no other basis is specified this means  $v = \sum_i v_i e_i = \sum_i v_i \sum_j b_{ji} \tilde{e}_j = \sum_j (\sum_i v_i b_{ji}) \tilde{e}_j$  4e2 4 5 2 if  $\{b_i\}$   $\{v_i\}$   $\{v_i\}$  is a basis of  $\mathbb{R}^n$  then the matrix  $S$  which contains the vectors  $v_k$  as column vectors is called the coordinate change matrix

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web the vector  $b$  is parallel to  $a$  and points in the same direction if  $\alpha > 0$  for  $\alpha < 0$  the vector  $b$  is parallel to but points in the opposite direction antiparallel if we multiply an arbitrary vector  $a$  by the inverse of its magnitude  $1/|a|$  we obtain a

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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  $c^{-1}$  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 a translation by a nonzero vector is not a linear map because linear maps must send the zero vector to the zero vector however translations are very useful in performing coordinate transformations i ll introduce the following terminology for the composite of a linear transformation and a translation definition let  $a$  be a real matrix

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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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