ADMISSION TEST 2011: GEOGRAPHY <u>Model Questions</u>

Syllabus: Plus 2 Level -

- (a) <u>for students with Geography</u>: Physical geography, Human geography, Economic geography, Regional Geography (India & World), Practical geography, General Science, and Elementary Mathematics
- (b) <u>for students without Geography in HS</u>: General Information about Earth, India and World, Physics, Chemistry, Mathematics, Life Science, and EV

A. Objective Type (Full Marks = 50)

$\underline{Compulsory}$ (Full Marks = 30)

- 1. On the given outline map (রেখা মানচিত্রে) of India, mark, shade and name the following (চিহ্নিত করো /শেড দাও এবং নাম লেখ)
 - A mountain gap (গিরি -ফাঁক) in south India, The Siwalik mountain range (শিবালিক পর্বত শ্রেনী), Areas affected by Nor' Wester (কালবৈশাখী অধ্যুষিত অন্চল), The Ganga Yamuna doab (গঙ্গা যমূনা দোয়াব), Tea producing region, Area under Monsoon forest, The Assam valley, The region, called the *mineral reserve* (খনিজভাঙার) of India.
- 2. At the winter solstice (মকরসংক্রান্তি), the altitude (উচ্চতা) of the noon sun (দুপুরসূর্য) at 23½°S is _____°.
- 3. If at A (20°E, 20°S) the local time (স্থানীয় সময়) is 10:00 a.m., at B (20°E, 20°N) it will be _____
- 4. Place where sun shines vertically twice a year: *Kolkata / Karachi / Kathmandu*
- 5. Relative Humidity of the ascending air decreases. True / False.
- 6. The value of $\cos^2 45 \sin^2 15 =$ ______, and if $\sin^2 x + \sin x 2 = 0$, x =_____°
- 7. A vehicle moving with a speed of $72 \,\mathrm{km}$ / hour covers (অতিক্রম করে) a distance of ______ m in 1 sec.

Any 10Q from the following (example) (Full Marks = 20)

- 8. Interlocking spurs (শৃঙ্খলিত শৈলশিরা) are found in the upper/middle/lower course of a river
- 9. Nimbostratus / Cumulus / Cirrus is a rain bearing (বৃষ্টিবাহী) cloud.
- 10. Basket of eggs topography (ভূমিরপ) is associated with: glacier / wind / deltaic rivers
- 11. Man-land ratio is very <u>low</u> in: extensive commercial (বাণিজ্যিক কৃষি) / plantation (বাণিচাকৃষি) / intensive subsistence farming (নিবিড়জীবিকাসন্ত্ৰাভিত্তিক কৃষি).
- *12.* Tick the <u>correct</u> match: *millets kharif* / *cotton rabi* / *maize rabi*
- 13. Transhumance (ঋতুভেদে স্থানপরিবর্তন) is practiced by: Guddies & Gujjars / Santals & Bhils / Birhores & Nagas
- 14. A satellite revolves round the earth in a circular orbit; find the work done by it.
- 15. Electromagnetic waves (তড়িৎচুম্বকীয় তরঙ্গ) are transverse (আড়াআড়ি / তির্যক) waves. True / False
- 16. <u>Citric / Carbonic / Acetic acid</u> is used for food preservation (খাদ্য সংরক্ষনে).
- 17. Bio-diversity (জীববৈচিত্ৰ) is greatest (সর্বোচ্চ) in equatorial rainforests / high mountains / deep oceans.
- 18. If ratio between the length of a pole and its shadow is $1:\sqrt{3}$, the elevation of sun = ______°
- 19. If AB is a fixed line, state the locus (সঞ্চার পথ) of P so that $AB^2 = AP^2 + BP^2$.
- 20. If the weights of two bodies are 2.0N and 2 kgf respectively, their masses are and

B. Short Answer Type: (Full Marks = 50)

<u>Compulsory</u> (to be answered in **<u>English</u>**; Full Marks = 10)

- 1. What are the present career options (বিভিন্ন বৃত্তি) of a geography graduate and which one will you choose and why (কোনটা তুমি নেবে এবং কেন)?
- 2. Give reasons for sharp rise (অতি দুত বৃদ্ধি) in world human population (পৃথিবীর জনসংখ্যা).

Any 4Q from the following (example) (Full Marks = 40)

- 3. Why is the rainforest (বৃষ্টিঅরণ্য) so named?
- 4. Most of the hot deserts (উষ্ট্যার্ক) are located on the western part of the continents (মহাদেশ). Why?
- 5. Give reasons iron (লোহা) is not extracted (নিন্দাসিত) by electrolysis (তড়িৎ বিশ্লেষণ) of its oxides, but aluminium is.
- 6. The base (ভূমি) of a right angled (লম্ব) pyramid is a regular hexagon (মড়ভুজ) whose area is 24√3 sq cm. If the area of a side face (পাৰ্শতল) is 4√6 sq cm, what is its volume (আয়তন)?