ADMISSION TEST-2012 FOR FIRST YEAR GEOGRAPHY (HONS) CLASS June 14, 2012

Time: 09.00 am to 11.00 am

Full Marks: 100

Group A: Compulsory Questions

1. On the given outline map (রেখা মানচিত্রে) of India, mark , shade and name the following(চিহ্নিত করে।,শেড দাও এবং নাম লেখ):

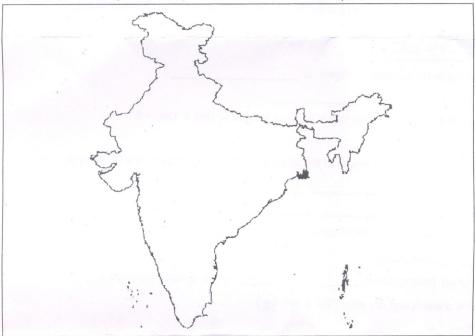
a. Logtak Lake

b. Sabarmati River (নদী)

c. A Sugarcane producing region (ইন্দু উৎপাদক অঞ্চল)

d. Telengana Plateau (মালভূমি)

e. Two Oil Refineries (তৈল শোধনাগার) - one at Malabar Coast (উপকূল) and one at Coromandal Coast



2. Practical Geography:

a) Draw suitable diagram (উপযুক্ত চিত্ৰ) with the following data and interpret (ব্যাখ্যা কর)

5

Lambuse	1950-1951	1998-1999
Net sown area (আবাদী জমি)	40%	46%
Fallow land (পতিত জমি)	10%	8%
Cultivable land (কৃষিযোগ্য জমি)	8%	5%
Land not available for cultivation (অ-কৃষি জমি)	17%	14%
Pastures and tree crops (শস্য ও চারণ ক্ষেত্র)	9%	5%
Forests (বনভূমি)	16%	22%

b) In a topographical map (টোপো মানচিত্রে) the length (দৈর্ঘ্য) of a river is 31.5cm. The actual length of the river is 15.75 km. Calculate the R.F. of the topographical map and draw a linear scale (রৈখিক ঞ্জেল) 5

Group B: Tick the Correct Option (√) or Fill in the Blanks (Answer any Twenty): 20 ×2= 40
1. Normal Lapse Rate of Temperature (স্বাভাবিক তাপহ্লাস হার) in Troposphere is
2. The colour of Biotite Mica is - White / Black / Brown.
3. Relative Humidity (আপেক্ষিক আর্দ্রতা) is expressed (প্রকাশ করা হয়) in Gram / Percentage / Degree.
4. Millet – seed sands is a feature (ভূমিরপ) of glacier / river / wind action.
5. The Government Organisation (সরকারী সংস্থা) that provides telecommunication service (টেলিযোগাযোগ
ব্যবস্থা) within India is VSNL / TRAI / BSNL.
6. The MOHO Discontinuity (বিযুক্তি) lies between and
7. Which of the following points (বিন্দু) does not lie on the line $y = 3x+4$?
a. (1, 7) b. (2,10) c. (-1,1) d. (4,12)
a set to the first the first the set of the

8. If the direction (দিক) of the Earth's rotation (আবর্তন) on its axis (অক্ষ) becomes east to west, then the Trade wind (আয়ন বা বাণিজ্য বায়ু) in Southern hemisphere (দক্ষিণ গোলার্ধ) will blow from - Southwest / Northeast / Southeast / Northwest direction.

9. The direct distance(দূরত্ব) in km between places, 60°N 90°E and 40°S 90°E is 11100 / 11000 / 11200.

11. Removal of the foothills forests (পাদদেশীয় বনভূমি ছেদন) - decreases / increases sheet flo	ow (সীট্ প্রবাহ) ,
erosion (ক্ষয়সাধন), and sediment inputs (অবক্ষেপণ) into the streams.	
12. Two Nitrogen Fixing (সংযোজক) Bacteria are and	
13 + green = yellow + = white -violet = + blue = .	
14. Reversal of 'Terrestrial Magnetic Polarity' can be explained by rule of	
Electromagnetism.	
15. A boy walking at a speed (গতিবেগ) of 10km / hr, reaches his school 15 minutes late. Ne	ext time he
increases his speed (গতিবেগ বাড়ায়) by 2 km / hr ; but still he is late by 5 minutes. The dis	
of his school from the house is	
16. $2 + \sqrt{2} + \frac{1}{2}\sqrt{2} + \frac{1}{\sqrt{2}} = \phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	
17. The equation (সমীকরণ) of the solar constant (সৌরধ্বুবক) is	
18. If (x-a) is a factor of x³ - ax + x + 2, then a =	
19. If density(ঘনত্) of air is 1.26 kg /m³, the mass (ভর) of air in a room of 10m × 12m ×	6m is
20. With sun at 45° above the horizon(দিগন্ত) , length of the shadow (ছায়ার বিস্তার) cast b	y a 30 m long
vertical pillar (উলম্ব স্তম্ভ) will be	
21. If the 7 Sin ² θ + 3 Cos ² θ = 4, then θ =	
22. Dawn , 6.00 am, (প্রত্যুষ্কাল) at Kolkata (88° 30'E) corresponds to the Twilight,6.00 pm (গোধূলি)
la a situada	
at iongitude. 23. The velocity of diurnal motion (আহিক গতি) is on the equator (নি	ক্ষাবেখা)
	110111)
24. Foehn / Mistral /Chinook is a warm and dry wind (উষ্ণ ও শুকা বায়ু)	
25. ICRISAT is situated (অবস্থিত) at	
26. Abhujmaria tribe (উপজাতি) resides (বাস করে) at, while Onge tribe at	
27. In northern hemisphere highest percentage of population (সর্বাধিক জনসংখ্যা) live within la	titude
0° to 20°/ 20° to 40° / 40° to 60° / 60° to 80°.	
28. Square/Circular/L–shaped village form (আকৃতি) can not be regarded as nucleated (গোষ্ট	বিদ্ধ)
29. Boleadoras is a type (প্ৰকার) of rope / crop / dress.	
30. Block Spade (ব্লকম্পেড্) is associated with - physical weathering / chemical weatherin	g / glacier.
Group - C: Short answer type question	10x4 = 40
1. Compulsory Question (To be answered in English only)	10
"Field studies constitute an important part of Geography" Explain.	2440 - 20
2. Answer any 3 (three) questions from the following	3×10 = 30
A. What do you mean by the 'Holistic Concept' (সামগ্রিক ধারণা) of Human Resource (মানব সম্	পদ) ?
B. What should be the appropriate strategies (যথোপযুক্ত ব্যবস্থা) for forest conservation (সংর	ছণ) in India?
C. How the theory of Plate tectonics (পাতসংস্থান তত্ত্ব) explain the origin of fold mountain sys	
পর্বতমালার উৎপত্তি) of the world? D. The moon describes a circular orbit of radius 3.8 × 10⁵ km about the earth in 27 days a	
describes a circular orbit of radius 1.5×10^8 km round the sun in 365 days. Find the radius 1.5×10^8 km round the sun in 365 days.	atio (অনুপাত) যপ
the mass (ভর) of the sun to that of the earth.	or is 5 cm. If the
E. The focal length of the objective of an astronomical telescope is 100 cm and its diamet	er is 5 cm. ii the
focal length of the eye piece is 20 cm, find	
i) Magnifying power in normal adjustment	
ii) The separation of two lenses	
iii) The diameter of the eye piece F. Discuss the changes in composition (গঠনগত পরিবর্তন) of foreign trade (বৈদেশিক বাণিজ্য)	in India in

recent years.