$$
\mathrm{P}-1(1+1+1) \mathrm{H} / 11
$$

## 2011

## GEOGRAPHY (Honours)

## First Poper

# Full Marks : 50 

Time: Two Hours
The fgures in the margin indicate foll marks.

> Section - I

Answer any one question. $\quad 20 \times 1=20$

1. What are the evidences used in the study of internal structure of the earth? Discuss the internal stucture of the carth in the light of Seismic Waves. $\quad 5+15=20$
2. What do you mean by plate tectonics? Explain the landform features produced along the convergent plate boundary. Comment on the limitations of the plate tectonic theory:

## Section - II <br> Answer any rwo questions.

3. Explain the principle of uniformitarianism as a fundamental concept in geomorphology What is principle of actualism?
$8+2=10$
4. Discuss supemova theory on the origin of the earth

## (2)

5. Discuss Thermal Contraction theory of mountain building
6. How does weathering differ from coosion? Describe role of vegetation in the process of weathering and erosion.

## Section - III

All are compulsory.
$2 \times 5=10$
7. Write short note on the following :
(a) Universal conservation of angular momentum.
(b) Diastrophism
(c) Law of buoyancy.
(d) Footwall and Hanging wall.
(c) Tor.

$$
\text { P- } 1(1+1+1) H / 11
$$

## 2011

## GEOGRAPHY (Honours)

## Second Paper

Full Marks : 50

Time: Two Hours
The figures in the margin indicate full marks.
Section - I

Answer any one question. $\quad 20 \times 1=20$

1. What do you mean by cycle of erosion? Analyse the concept of dynamic equilibrium as proposed by Hack and find out similarities and dissimilarities between Hack's concept and Davisian concept in this context. $2+12+6=20$
2. Discuss the factors and process of hydrological cycle. What is the significance of hydrological cycle? How do human actions internupt the hydrological cycle?

$$
10+6+4=20
$$

## Section - II

Answer any owo questions. $\quad 10 \times 2=20$
3. What do you mean by base level of erosion? What are impacts of positive and negative change of base level on normal cycle of erosion?
$3+7=10$

PT.O.
4. What is delta? Why delta are not found along the western const of India?
5. Discuss the factors controlling groundwater storage.
6. Compare and contrast between the drainage system developed in the folded structure and uniclinal structure. 10

# Section - III 

Answer all questions. $\quad 2 \times 5=10$
7. Write short note on the following :

(b) River Capture
(c) Piodmont
(d) Tombolo
(c) Stack.

$$
\text { P- } 1(1+1+1) \mathrm{H} / 11
$$

# 2011 <br> GEOGRAPHY (Honours) <br> Third Paper 

Full Marks : 50
Time : Two Hours
The figures in the margin indicate full marks.
Section - I
Answer any one question. $\quad 20 \times 1=20$

1. Distinguish between the terms 'Potential' and 'Developed' in the context of hydel power. Inspite of great potentiality North-east India lags behind in hydel power generation-explain.
$3+5+12=20$
2. What do you mean by sustainable development? What are the principles of sustainable development? Distinguish between growth and development. How far principles of sustainable development have been followed in conservation of forest resource in India ? $\quad 3+4+8+5=20$

Section - II
Answer any two questions.
$10 \times 2=20$
3. Explain how transport and communication system accelerate resource production and utilization.
4. Explain the significance of petroleum on global economy.
5. What are the implications of underpopulation and over-population in a country? What is population explosion?

$$
8+2=10
$$

6. Define resource. Distinguish between flow and fund resource. Do you think water is inexhaustable resource ? Why?
$2+4+4=10$

## Section - III

Answer all questions. $\quad 2 \times 5=10$
7. Write short note on the following :
(a) Man-Land Ratio
(b) Social forestry
(c) Arithmetic Density
(d) Silviculture
(c) Ubiquitous resource.

$$
\mathrm{P}-1(1+1+1) \mathrm{H} / 12(\mathrm{~N}+\mathrm{O})
$$

2012

## GEOGRAPHY (Honours)

## First Paper

## Full Marks : 50

Time : Two Hours
The figures in the margin indicute full marks.
(New Syllabus)
Section - I
Answer any fwo questions.
$10 \times 2=20$
(Each answer should be within 700 words.)

1. Critically explain the theory of 'Plate Tectonics'. Explain the formation of the "Istand Arcs" in the light of this theory.
2. What do you mean by 'Earth Movement' 7 Explain its resultant structure with particular reference to faults.

$$
3+7=10
$$

3. Explain the Supemova Hypothesis of Hoyle for the origin of the Earth.

## Section - II

Answer any five questions. $\quad 4 \times 5=20$
(Each answer should be within 250 words.)
4. Differentiate between ' P ' and ' S ' waves.

PTO.
5. Write a short note on the evidences of the Deccan system in India.
6. Explain the theory of Isostasy after Pratt.
7. What are the basic assumptions of A . Wegener's Continental Drift theory?
8. Write down the different components of a fold.
-9. Write a short note on 'Big Bang theory' regarding the origin of the Earth.
10. Explain the mountain building theory according to Holmes.
11. Compare between continental crust and oceanic crust.

$$
\begin{aligned}
& \text { Section }=\text { III } \\
& \text { Attempt all questions. } \quad 2 \times 5=10
\end{aligned}
$$

(Each answer should be within 100 words.)
12. Write short notes on the following :
(a) Land Bridge.
(b) Supernova
(c) Polar reversal.
(d) Jura structure.
(c) Zig-saw-fit.

# (Old Syllabus) 

## Section - 1

Answer any one question.
$20 \times 1=20$

1. Critically explain the theory of 'Plate Tectonics': Explain the mountain building process in the light of Plate tectonics.
$12+8$
2. Explain mass wasting as sub-aerial denudational Process.

## Section - II

$$
\text { Answer any two questions. } \quad 10 \times 2=20
$$

3. What do you mean by "Earth Movement' ? Distinguish between fault scarp and faultine searp. $4+6=10$
4. Explain the theory of Isostacy with reference to 'Airy' and 'Pratt'.
5. Discuss the 'Nebular Hypothesis' on the origin of the Earth

10
6. Comment on the recent development on the Geomorphic ideas in America.
Section - III

Answer all questions. $\quad 2 \times 5=10$
7. Write short notes on the following :

$$
\text { (a) ' } P^{\prime} \text { wave }
$$

PTO.
(4)

## (b) Nappe

(c) Tor
(d) Zig-saw-fit
(e) Lehmann Discontinuity

$$
\mathrm{P}-1(1+1+1) \mathrm{H} / 12(\mathrm{~N}+\mathrm{O})
$$

## 2012

## GEOGRAPHY (Honours)

## Second Poper

Full Marks : 50
Time : Two Hours
The figures in the margin indicate full marks.
(New Syllabus)
Section - I
Answer any two questions. 10
nswer should be within 700 words.)

1. Distinguish between weathering and Mass wasting. Describe the landforms produced by chemical weathering. $3+7=10$
2. Describe the resulted landforms of interniption in the normal cycle of crosion. 10
3. Write down the causes of left bank crosion of River Ganga in Malda. What are the steps taken to combat this situation?
$6+4=10$

## Section - II

Answer any five questions. $\quad 4 \times 5=20$ (Each answer should be within 250 words.)
4. Write down the various process of river erosion.
5. Distinguish between Primärrumpf and Endrumpf.
6. Write a short note on the Trellis drainage pattern.
7. How 'Obsequent fault-line scarp' is formed ? 4
8. Describe the formation of 'Ox-bow-lake'.
9. What are the management plans for Flood?
10. Discuss about the "inversion of topography' on folded structure.
11. Distinguish between Zeugen and Yarlang. 4

## Section - III

Answer all questions. $\quad 2 \times 5=10$
(Each answer should be within 100 words.)
12. Write short notes on the following :
(a) Pyramidal Peak
(b) Monadnocks
(c) Dolines
(d) Cuesta
(e) Solifluction.

## (Old Syllabus)

$$
\text { Answer any one question. } \quad 20 \times 1=20
$$

1. What are the favourable conditions for the development for the Karst Topography ? Describe the . landforms produced by underground water. $5+15=20$
2. What do you mean by "Basin Hydrology"? Discuss the factors affecting run-off. $8+12=20$

$$
\begin{aligned}
& \text { Section - II } \\
& \text { Answer any two questions. } \quad 10 \times 2=20
\end{aligned}
$$

3. Write an crosional landforms developed by Sea wave. 10
4. Write in brief on the modes of occurrence of water on the Earth. 10
5. Describe the resultant landforms of interruptions in the normal cycle of erosion.
Write down the development of drainage system on uniclinal structure.10

## Section - III

$$
\text { Answer all questions. } \quad 2 \times 5=10
$$

7. Write short notes on the following :
(a) Nunatak

> PTO.

## (4)

## (b) Pediplain

(c) Barchan
(d) Evapotranspiration
(c) Infiltration.

## $\mathrm{P}-1(1+1+1) \mathrm{H} / 12(\mathrm{~N}+\mathrm{O})$

## 2012

## GEOGRAPHY (Honours)

## Third Paper

## Full Marks : 50

Time : Two Hours
The figures in the margin indicate full marks.

## (New Syllabus)

$$
\begin{aligned}
& \quad \text { Section - 1 } \\
& \text { Answer any two questions. } \quad 10 \times 2=20
\end{aligned}
$$

(Each answer should be within 700 words.)

1. Define Infiltration? What are the several factors affecting infiltration?

$$
2+8=10
$$

2. Write an essay on the contamination of Ground water with special reference to Arsenic prone areas of West Bengal.


Answer any five questions. $\quad 4 \times 5=20$
(Each answer should be within 250 words.)
4. What is the significance of Hypsometric Curve?
5. What are the components of hydrological cycle ?
6. Give an account of various types of aquifers. 4
7. Rain water Hervesting. 4
8. What are the processes related to the recharge of Ground water.
9. Analyse the characteristics of 'T-S' diagram. 4
10. Classify oceanic sediments. 4
11. Give the characteristics features of different thermal layers of ocean.

Section - III
Answer all the questions. $\quad 2 \times 5=10$
(Each answer should be within 100 words.)
12. Write short notes on the following :
(a) Elongation Ratio.
(b) Continental slope.
(c) Vadose water.
(d) River Basin.
(e) Sargasso sea.

## (Old Syllabus)

## Section - I

Answer any one question.
$20 \times 1=20$

1. Assess the importance of Tropical Rain forest. Why lumbering is underdeveloped in this region? What are the conservation policies taken to manage this natural resource?

$$
6+8+6=20
$$

2. Population as Human Resource-Explain. What are the principles of sustainable development? $10+10=20$

## Section - II

Answer any two questions.
$10 \times 2=20$
3. Explain the scope and significance of resource studies.

10
4. Give an account of the major petroleum producing countries in the Middle-East.

10
5. Why infrastructural facilities are important for the development of Resources?

10
6. Evaluate the role of People's Participation in conserving forest.

10

> Seetion - III Answer all questions. $\quad 2 \times 5=10$
7. Write short notes on the following :
(a) Neutral staff.

PTIO.

## (4)

(b) NTPC
(c) Under Population:
(d) Boreal Forest.
(e) Jaldhaka Hydel Power Station.

$$
\text { P-1 }(1+1+1) \mathrm{H} / 13
$$

## 2013

## GEOGRAPHY (Honours)

First PaperFull Marks : 50Time : Two Hours
The figures in the margin indicute full marks

## New Syllabus

## Section - I

Answer any two questions. $\quad 10 \times 2=20$

1. Give an account of distribution and economic importance of Dharwar System in India.
2. Briefly discuss the theory of continental Drift as proposed by A. Wegner.
3. Explain the mountain building theory according to Kober
4. Compare the views of Pratt and Airy regarding the theory of isostasy. What is isostatic adjustment? $\quad 8+2=10$

Section - II

$$
\text { Answer any five questions. } \quad 4 \times 5=20
$$

5. Define and classify plate boundary.
6. What are the salient features of Low velocity zone?
7. Explain Big Bang Theory for the origin of the earth.
8. How is intemal structure of the earth detemined with the help of seismic evidences?
9. Whut is magma? How is it iniected into L Lthosphere?
10. Discuss different types of Mass wasting.
11. Describe different types of folds with suitable example.
Section - III
12. Attempt all questions:
(a) S wave
(b) Nappe
(c) Beni-off zone
(d) Supernova
(e) Triple junction.

## Old Syllabus

## Section - I

Answer any one question.
$20 \times 1=20$

1. What is weathering? What are the difference between physical and chemical weathering? Discuss different types of mass wasting.

$$
2+4+14=20
$$

2. Critically explain the theory of continental Drift as proposed by A. Wegner.

## Section - II

$$
\text { Answer any rwo questions. } \quad 10 \times 2=20
$$

3. Explain the theories of Kant and La-place for the origin of the earth.

4. What is normal fault? How does it differ from a reverse fault?

$$
4+6=10
$$

5. State briefly the factors favouring the development of Karst Topography.
6. Explain the theory of isostacy with reference to Airy. What is Isostatic adjustment? $6+4=10$

PT.O.

$$
\begin{gathered}
(4) \\
\text { Section - III }
\end{gathered}
$$

7. Answer all questions

$$
2 \times 5=
$$

(a) Subduction zone
(b) Exfoliation
(c) Unifomitarianism
(d) Nebula
(e) Faultline scarp

## 2013

## geography (Honours)

## Second Paper

Full Marks : 50
Time : Two Hours
The figures in the margin indicate full marks.

## New Syllabus

Section - I
Answer any fwo questions.
$10 \times 2=20$

1. What do you understand by Dynamic Equilibrium? Explain the time-independent model of landscape development proposed by Hack. In what way is this model different from the cyclic models?
$2+5+3=10$
Fiscuss the development of landforms on faulted structure with suitable illustrations
2. What do you mean by bank crosion? What are the probable causes of rapid bank erosion by the Ganga in Malda and Murshidabad districts of West Bengal. Discuss the consequences of this hazard.
3. What are the major depositional landforms formed by a river? Why do the rivers Narmada and Tapi not form a delta?

## Section - II

Answer any five questions. $\quad 4 \times 5=20$
5. Describe the geomorphic conditions favourable for the formation of deltia.
6. Are there any differences between sea coast, sea shore and beach? Justify.
7. What is Uniformitarianism? Explain in detail
8. Discuss the major transportational processes of the rivers.
9. Differentiate between meandering and braided chunnels.
10. What are the differences between drumlins and Roche Montanne?
11. What do you understand by inversion of relief? How does it occur? Give an example from Indian scenario.

$$
2+1+1
$$

## Section - III

Answer all questions.
12. Write short notes on
$2 \times 5=10$
(a) River Capture
(b) Neo-catastrophism
(c) Farakka Barrage
(d) Hogback
(c) Peneplain.

## OId Syllabus

## Answer any one question. <br> $20 \times 120$ <br> in puiclinal and folded structures with suitable illustrations.

$10+10=20$
2. Write down the controlling factors of infiltration? Discuss the processes and techniques regarding groundwater movement and storage. What is Darcy's Law? $8+10+2=20$

> Section = II

Answer any roo questions. $\quad 10 \times 2=20$
3. Distinguish between Davis's and Penck's models of cycle of erosion.
4. What are the favourable conditions for the development of karst landscapes? What is solution? $8+2$
5. What do you mean by mass wasting? Define landslide and discuss its vulnerability.
6. "River basin is a hydrological unit." Explain.

PTO.

## (4) <br> Section - III

## Answer all questions.

7. Write short notes on :
$2 \times 5=10$
(a) Rejuvenation
(b) Knick Point
(c) Antecedent stream
(d) Polje
(e) Seif.

## 2013 <br> GEOGRAPHY (Honours) <br> Third Paper

Full Marks: 50
Time: Two Hours
The figures in the margin indicate full marks.
New Syllabus
Group - A

## (Hydrology)

Section - I
Answer any one question. $10 \times 1=10$

1. Define 'runoff'. What are the various components of this? Illustrite the major factors affecting runoff with suitable example.

$$
2+3+5
$$

2. Justify the consideration of a river basin as a hydrological unit with special reference to Damodar.

## Section - II

Answer any four questions.
$4 \times 4=16$
3. Define "evaporation'. Mention the major factors influencing this.
4. How does Hypsonctric Curve serve as a evidence in detecting stage in cycle of erosion. (nwoynat)

[^0]5. Briefly describe contamination of groundwater with special reference to arsenic pollution it Malda district. 4
6. Discuss the formation of an artesian well. 4
7. Explain the Hydrological Cycle indicating its various phases.
8. Discuss movement of groundwater in the light of Darcy's Law

4

$$
\begin{aligned}
& \text { Section - III } \\
& \text { Answerall questions: }
\end{aligned} \quad 2 \times 2=4
$$

9. Write short notes on :
(a) Recharge head.
(b) Connate water


Answer any one question. $10=1=10$
10. Discuss the bottom relief characteristics of any Occan. 10
11. Write the factors influencing sariation of density of ocean water in the subsurface layers.

10

## Section - II

$$
\text { Answer any one question. } \quad 4 \times 1=4
$$

12. Differentiate between 'bay" and 'lagoon' with examples.
13. Give a brief account of the currents of the Indian Ocean.

# Section - III <br> Answer all questions. <br> $3 \times 2=6$ 

14. Write short notes on :
(a) Peynocline
(b) Diatoms

## Old Syllabus

## Section - 1

## Answer any one question.

1. What is Resource? What are the attributes of resources? Classify resource on the basis of frequency of occurences. State the difference between "neutral stuff and "natural resistance".
$2+3+10+5$
2. What is "sustainable development"? State the various principies of this. List out the various indicators of environmental sustainability.
$4+8+8$
PTO.
(4)
Section - II
Answer any fwo questions. ..... $10 \times 2=20$
3. What are the attributes of human resourcedevelopment?10
4. State briefly the varibus methods of conservation ofresounces. Evaluate the mole of man as consumer of resources.10
5. Discuss the commercial uses of coniferous forest of the world. Write about depletion of tropical rainforest and related environmental problems.
6. What are the advantages and disadvantages of Hydroelectric power generation?10
Section - IIII
Answer all questions: ..... $2 \times 5=10$
7. (a) Phantom pile
(b) Recycling of resource
(c) Optimum population
(d) Man-Land ratio
(c) Selva

$$
\mathrm{P}-1(1+1+1) \mathrm{H} / 14(\mathrm{~N}+\mathrm{O})
$$

2014
GEOGRAPHY (Honours)

## First Paper

Full Marks : 50
Time : Two Hours
The figures in the margin indicate full marks.
[New Syllabus]
Geotectonics
Section - 1
Answer any two questions. $\quad 10=2=20$

1. Discuss the theory of continental Drift of A. Wegnar.
2. What do you mean by discontinuities? Discuss about structure, composition and characteristics of earth's interior:
$2+8=10$
3. Mention the evidenoes of sea floor spreading. Explain the concept of sea floor spreading after Hary Hess. $3+7=10$
4. Classify and describe the characteristics of different types of fault with suitable diagram.

Section - II

$$
\text { Answer any five questions. } \quad 4 \times 5=20
$$

5. Enumerate the weaknesses of Nebular Hypothesis. 4

PT.O.
(2)
6. Explain the topognyphic expressions of fold. ..... 4
7. What do you mean by level of Compensation ? ..... 4
8. Elaborate the concept of 'Gravity Anomaly' ..... 4
9. Discuss the characteristics and distribution of 'DecanSystem' in India.4
10. What is "Hot spots' and "Mantle Plumes'? 2+2=4
11. Discuss with proper diagrams the theory of Isostasyas propounded by G Airy.4
12. What are the drawbacks of Plate tectonics theory?

## Section - III

13. Answer all the questions
(a) 'Flight from the Pole'
(b) Strike - slip fault.
(c) Mid Atlantic Ridge
(d) Median Mass and Randketten.
(e) Big Bang Theory.

## (3)

## |Old Syllabus]

## Physical Geogruphy

> Section - I
> Answer any one question.
> $20 \times 1-20$

1. Briefly discuss the plate tectonic theory. How is orogenesis related to plate tectonic ?
$10+10=20$
2. Discuss different processes of physical weathering. What are the geomorphic importance of weathering?
$14+6=20$

## Section - II

Answer any fwo questions.
$10 \times 2=20$
3. Explain the Tidal Hypothesis of the onigin of earth by James Jeans. What do you mean by 'primitive sun'?
$8+2=10$
4. Briefly discus the internal structure and composition of earth's interior.
5. Write about the role of American School for the developnent of geomorphologic ideas.
6. Explain the mountain building theory according to Kober.

## (4)

Section - III
7. Answer all the questions:
$2 \times 5=10$
(a) Tor.
(b) Zone of compensation.
(c) NIFF.
(d) Nappe.
(e) Strike-slip-fiult.


# $\mathrm{P}-1(1+1+1) \mathrm{H} / 14(\mathrm{~N}+\mathrm{O})$ <br> 2014 <br> GEOGRAPHY (Honours) <br> <br> Second Paper 

 <br> <br> Second Paper}

Full Marks : 50
Time : Two Hours
The figures in the margin indicate full marks.
[New Syllabus]
Geomorphology Section-A = =--
Answer any two questions.
$10 \times 2=20$

1. "Geological Structure is a dominunt controlling factor in the evolution of land forms and is reflected in them". Elaborate the statement with examples having taken the meaning of the term 'structure' as the sense as conceived by Wiliam Morris Davis.

2. Discuss the causer of flood with special reference to North Bengal region. Assess the performance of DVC in flood control.

$$
7+3=10
$$

4. What is Karst topography? Write on the erosional processes as well as resultant landforms developed by underground water.
$2+8=10$
PTO.

## Section - II

Answer any five questions. $\quad 4 \times 5=20$
5. Distinguish between rapid and slow processes of mas-wasting and indicate their impacts on landforms.
6. Explain the formation of river temaces.
2. Explain the development of resequent stream on fotided rock strata.
8. Distinguish between oxidation and carbonation in chenical weathering
9. What are the different types of delta ?
10. Write on the assumptions proposed by Hack in his dynamic equilibrium conoept.
11. What is Bergschrund? How does it help in erosion of glacier valley?
12. Describe and explain the formation of cirque. 4 Section - III

Answer all questions.
13. Write short notes on: $2 \times 5=10$
(a) Hook.
(b) Flood Plain.
(c) Out wash plain.
(d) Man Made Hayard.
(c) Tombolo.

# ( 3 ) <br> [OId Syllabus] <br> Physical Geography 

Section - I
Answer any one question.
$20 \times 1=20$

1. Define hydrology. What do you mean by hydrologic cycle? Assess the major components of hydrological cycle. Illustrate your answer with suitable diagram. $\quad 2+4+14=20$
2. What do you mean by ideal cycle of crosion ? Analyse the cencept of Davis's cycle of erosion and compare it with Hack's cycle of erosion.
$2+14+4=20$

## Section - II

Answer any iwo questions. $\quad 10 \times 2=20$
3. What are the favourable factors for the formation deltas ? State the differences between aluvial fans and deltas.

$$
6+4=10
$$

4. Describe the topographic features produced by marine deposition.
5. What is landslide ? What are the major causes of landslide with special reference to Hill region? $\quad 2+8=10$
6. Discuss the depositional landforms developed by valley glacier.

# ( 4 ) <br> Section - III <br> Answer all questions. $\quad 2 \times 5=10$ 

7. Write short notes on :
(a) Nappe.
(b) Inversion of Relief.
(c) Barchan.
(d) Pot hole.
(c) River Capture.

$$
\mathrm{P}-1(1+1+1) \mathrm{H} / 15(\mathrm{~N}+\mathrm{O})
$$

## 2015

## GEOGRAPHY (Honours)

First Paper
Full Marks : 50
Time : Two Hours
The figures in the margin indicate full marks.
[New Syllabus]
(Geotectonics)
Section - I
Answer any $h$ wo questions. $\quad 10 \times 2=20$

1. Discuss the origin of the universe with particular reference to the 'Big Bang' Theory.
2. Explain the term "Isostacy". Give an account of Pratt's views on Isostacy. What is the "Gravitational anomaly" ?
$2+6+2=10$
3. What is meant by plate techtonic? How can it explain the present layout of young fold mountains in the World?
$2+8=10$
4. Discuss the relevance of the theory of convection current as formulated by a A. Holmes in explanation of the major techtonic processes and features of the earth.

## (2)

Section - II
Answer anyy five questions. $\quad 4 \times 5=20$
5. Differentiate epirogenic movement from Orogenic movement.
6. What is Thrust? Distinguigh between over thrust and under thrust.
7. Write in brief how Wegener used palcontological and paleoclimatic evidence to match the different continents.

> पूत्राif $2+2=4$
8. Write a short note on the evidences of the Decon system in India
9. Compare between SLAL and SIMA. 4
10. Write a note on "Tetrahedral" hypothesis. 4
11. With appropriate sketches distinguish between strike slip fault and dip slip fault.
12. How can sea-floor spreading be explained by palieomagratiom?

## Section - III

Answer all questions. . $2 \times 5=10$
13. (a) Hot spots.
(b) Nappe.
(c) NIFE
(d) Triple Junction
(e) Gutenberg dissontinuity.

## [OId Syllabus]

## Section - I

Answer any one question.
$20 \times 1=20$

1. What is fault ? Mention the different types of faults and describe the landforms produced by them. $\quad 4+16=20$
2. What is hydrological cycle ? Explain the different components of hydrological cycle.
$2+18=20$

## Section - II

Answer any two questions. $\quad 10 \times 2=20$
3. Write a short note on the evidences in favour of continental driff theory as proposed by Wegreer.
4. What are the ideal conditions for the development of Karst topography ?
5. Describe and account for the different features produced by wind deposition in desert areas.
6. What are the characteristics of lgneous rocks? How are lgneous rocks classified on the basis of silicon content?

# ( 4 ) <br> Section - III 

7. Answer all questions.
$2 \times 5=10$
(a) Lithosphere.
(b) Knick point.
(c) Drumlin.
(d) Triple Junction.
(e) Super nova:

$$
\mathrm{P}-1(1+1+1) \mathrm{H} / 15(\mathrm{~N}+\mathrm{O})
$$

## 2015 <br> GEOGRAPHY (Honours)

Third Paper

Full Marks : 50<br>Time : Two Hours

The figures in the margin indicate full marks.
[New Syllabus]
Group - A
(Hydrology)
Section - I
Answer any one question. $\quad 10 \times 1=10$

1. What do you mean by basin morphometry? Discuss the components of basin like slope and elongation ratio. $2+4+4=10$
2. What is infiltration? What are the controlling factors of infiltration?
$2+8=10$

> Section $=11$
> Answer any four questions. $\quad 4 \times 4=16$
3. Differentiate between evaporation and transpination. 4
4. Give an account of various types of aquifers. 4
5. Write a short note on ground water movement and storage.

PT.O.
6. What are the different components of hydrological cycle ?
7. Distinguish between water table and artesian aquifer. 4
8. Explain in brief the problems of conservation of water.

4

$$
\begin{aligned}
& \text { Section - III } \\
& \text { Answer all questions. } \quad 2 \times 2=4
\end{aligned}
$$

9. Write short notes on :
(a) Aquicluids
(b) Sinuosity Index.

> Group - B
(Oceanography)

$$
\text { Section }=1
$$

Answer any one question. $\quad 10 \times 1=10$
10. What is conal reef? Explain its origin after Darwin theory

$$
2+8=10
$$

11. Write the differences between equatorial and polar ocean currents. Assess the role of occun current in controlling climate on earth's surface.

$$
6+4=10
$$

## Section - II

Answer any one question. $\quad 4 \times 1=4$
12. Distinguish between seamounts and guyots. 4
(3)
13. Write the chanacteribtics of organie ocean deposits.

| Section - III |
| :--- |
| Answer $a l l$ questions. |$\quad 2 \times 3=6$

14. Write short notes on:
(i) Warm eurrent.
(b) Dead Sed.
(c) Trench.

## [OId Syllabus]

## Section - I

Answer any one question.
$20=1=20$

1. What is resource ? Exphain the role of infrestructural facilities to exploit resource. What are the problems of nonrenewable resource?
$2+12+6-20$
2. What are the main causes of forest depletion ? Assess the role of agro-forestry in forest conservation.
$15+5=20$

## Section - II

Answer any owo questions.
$10 \times 2=20$
3. What are the different types of non-conventional energy ?

PTO.
4. Explain the role of coal in location of thermal power plant.
5. What is optimum population? What are the advantages of optimum population?
6. Assess the economic importance of petroleum.

## Section - III

Attempt all questions. $\quad 2 \times 5=10$
7. Write short notes on :
(a) Rock Oil.
(b) Fund resource.
(c) Participatory Forest Management (PFM).
(d) Under-population.
(c) Mangrove forest.
P- $1(1+1+1) \mathrm{H} / 15(\mathrm{~N}+\mathrm{O})$
2015
GEOGRAPHY (Honours)
Second Paper
Full Marks: 50Time : Two HoursThe figures in the margin indicate full marke:
[New Syllabus]
Section - I
Answer any rwo questions. ..... $10 \times 2=20$

1. What is meant by 'Modification of nommal cycle'?Clarify the causes of such modification. How would yourecogrize the rejuvenated lardscape in the field?

$$
2+6+2=10
$$

2. What do you understand by the term "Karst Topography'? Discuss the favourable conditions for the development of Karst Topography. Describe the various erosional landforms produced by underground water in a region of limestone rocks.
$2+4+4=10$
3. Explain with illustration the influence of lithology on topography.10
4. What do you mean by fluvial geomorphology? Discuss the different types of landforms formed due to river erosion:
$2+8=10$
PT.O.
5. How does interlocking spur differ from a truncated
6. Why is chemical weathering more prominent in thumid tropical regions?
7. Compare and contrast between the concept catistrophism' and 'Gradualism'.
8. What is "Fuetor of safety" ? How is it used to expluin the causes of slope failure?
$2+2=4$
9. Distinguish Hazard from Disaster Would you consider flood as the Hazard? Give reason. $2+2=4$
10. Explain the structure of Delta.
11. Distinguish between wash and backwash 4
12. What is water fall ? Why does water fall recede upstream?
$2+2=4$

$$
\begin{array}{ll}
\text { Section - III } \\
\text { Answerallquestions. } & 2 \times 5=10
\end{array}
$$

13. Write short notes on :
(a) Oxidation
(b) Monadnock
(c) Esker
(d) Tors
(c) Ventifincts.

## [OId Syllabus]

## Section - I

Answer any one question.
$20 \times 1=20$

1. What is fluvial geomorphic progess? Describe with illustration the erosional landforms created by fluvial process. What is stream abstration?
$2+16+2=20$
2. Define hydrological cycle. What are its components? Explain how various geographical factors affect runoff.
$2+c+12=20$

## Section - II

Answer any two questions.
$10 \times 2=20$
3. What is drainage system? Explain different types of drainage system.
4. What is peneplain? How does it differ from pediplain? Explain how does peneplain evolve?

$$
2+2+6=10
$$

25. Describe topographic features produced by marine deposition.
26. Define river rejuventation. What are the geomorphic consequences of rejuventation of river ?
$2+8=10$
PT.O.

## ( 4 )

## Section - III

Answer all the questions. $\quad 2 \times 5=10$
7. Write short notes on :
(a) Inversion of relief.
(b) Outwash plain.
(c) Infiltration
(d) Abrasion.
(c) Elbow of river capture.

$$
\mathrm{P}-1(1+1+1) \mathrm{H} / 16(\mathrm{~N})
$$

## 2016

## GEOGRAPHY (Honours)

Paper Code : I-B

(New Syllabus)
Full Marks : 50
Time: Two Hours
The figures in the margin indicate fill marks.
Module-1 : Geotectonic
Section - I: (Long Answer type Question)
Answer any one question. $\quad 10 \times 1=10$

1. Critically assess the interior structure of the earth with special reference to Seismology. Define the term geological time scale. $8+2=10$
2. Elaborately discuss about the origin of folded mountain of Himalayn with special reference to Plate tectonics

3. Classify folds on the basis of their geometrical shupe with suituble diagrams.

(2)
 inoday to the Het of modem mounh
4. What ate the demmin of "Supermove" hypochesie
r"petiry the epplonathon of the ofoin of enth?
 7. Narmite the Hravturbe of Wrmatre thenry in the lipht of abrence of uppopriat evidence: 5 4. Disur won the mimain hulfing dery of Nober

 Modult - 2 + Oeranography

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 12. Explain in "tetall nbrut the coem foor of NorthAllantic Oeven wid South A the coem noor of Nothdiumime.

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y+5=10
$$

$$
\mathrm{P}-1(1+1+1) \mathrm{H} / 16(\mathrm{~N})
$$

## 2016 <br> GEOGRAPHY (Honours)

Paper Code: I-C
(New Syllabus)
Full Marks : 50
Time : Two Hours
The figures in the margin indicate full marks.
Module 3 : Geomorphology
Section - I
(Long answer type questions)
Answer any one question. $\quad 10 \times 1=10$

1. Define mass-wasting. Discuss with proper diagrams the resultant landform of weathering What is saprolite?

$$
2+7+1=10
$$

2. What do you mean by geomorphic hazards ? Describe the causes responsible for frequent occurrences of landslides in the Dajeeling Himalnyas. $\quad 2+8=10$

Section - II
(Semi long answer type questions)
Answer any four questions. $\quad 4 \times 5=20$
3. What are the favourable conditions for the development of 'Karst' topography ?

PT.O.

(2)
4. What do you mean by nepotve change in bues hod of craition 7 What ere the popmopphic stgniliemcen of nequive change in best lowel of aroion in the doun tiram
 5. What is iver meander 7 Disctas the proeen of formation of mobor like $1+4=5$
 stupture in the fint-cycle of empton. 5 70 4nvi Dovis and Furch an agele of cruilat
 Ihatrithomi. 5 9. How is the thod plain fromed 7 is
10 . Prewnil is ibe ley to the puat" - Bupluli. is the ley to the pait - Expluli:
Metwle 4 ; Hydrology ule 4;Hydrology
Scrtinn - III
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## 2017 <br> GEOGRAPHY (Honours)

Paper Code: I-B
(Now Syllabus)

## Full Marks : 50

Time: Two Hours
The figures in the margin indicate full marks.

## GEOTECTONIC

$$
\begin{aligned}
& \text { Section - I } \\
& \text { Answer any one question: } \quad 10 \times 1=10
\end{aligned}
$$

1. Discuss the origin of Universe with particular reference to the Big Bang Theory,
2. Classify different types of folds mentioning the basis of your classification.

## Section - II

Answer any four questions:
$5 \times 4=20$
3. How can seafloor spreading be examined by palaeomagnetism?5
4. Discuss the mountain building theory according to Holmes.5

PT.O.


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421

OCEANOGRAPHY
Seetimn - III



## P- $1(1+1+1) \mathrm{H} / 17$ ( O$)$

## 2017 <br> GEOGRAPHY (Honours)

## Second Paper

(Geomorphology)
[OId Syllabus]
Full Marks : 50 Time: Two Hours
The figures in the margin indicate full marks.
Section - I
Answer any two questions. ..... $10 \times 2=20$

1. Give an account of W. Penck's view of landform development.10
2. Discuss the influence of lithology on chanacteristics of landform with particular reference to granite and limestone in a humid tropical and humid tempenate climate.10
3. "The present is the Key to the Past"- explain. 10
4. Discuss the depositional landforms created by the acolian process with suitable diagrams.

## Section - II

Answer any five questions. $\quad 4 \times 5=20$
5. Explain the formation of Uvalas and Poljes.

> PT.O.
6. Distinguish between 'earthflow' and 'landslide' in the context of mass movement.
7. Describe the different processes of thermal weathering.
8. Explain the mechanism of river-bank erosion with special reference to such erosion in West Bengal.
9. Discuss the processes involved in the evolution of a delta.
10. Write in brief the consequences of flood in West Bengal.
11. Bring out the salient features of moraines.
12. Distinguish between a hogback and a Cuesta.

## Section - III

Answer all questions.
13. Write short notes on:
$2 \times 5=10$
(a) Tor.
(b) Nappe.
(c) Drumlin.
(d) Ox-bow lake.
(e) Outwash plain.

## P- $1(1+1+1) \mathrm{H} / 17(\mathrm{~N})$

## 2017 <br> GEOGRAPHY (Honours)

Paper Code: 1-B
(New Syllabus)

## Full Marks: 50

Time : Two Hours
The figures in the margin indicate foll marks.

## GEOTECTONIC

## Section - I

Answer any one question: $\quad 10 \times 1=10$

1. Discuss the origin of Universe with particular reference to the Big Bang Theory.

10
2. Clessify different types of folds mentioning the basis of your classification.

10

## Section - II

$$
\text { Answer any four questions: } \quad 5 \times 4=20
$$

3. How can seafloor sproading be examined by polieomagnetism?
4. Discuss the mountain building theory according to Holmes.

PTO.

## 5. Define plate, Clissify plate boundaries.

6. How docs plate tectonies and volcanism are interrelated?
7. Write a short note on Carboniferous period.
8. Assess the interior of earth on the basis of velocities of Scismic waves
9. With appropriate sketches, distinguish between strike-slip-fault and dip-slip-fault.
10. Write a short note on the theory of Isostasy affer Pratt.

## OCEANOGRAPHY

Section - III
Answer any one question: $\quad 10 \times 1=10$
11. Explain the factors which determine the nature of ocean currents. Describe the salient features of the Indian Ocean currents.
12. Define Coral reef and atoll. Explain Darwin's theory of Coral reef formation.

$$
4+6=10
$$

## Section - IV

Answer any nvo questions: $\quad 5 \times 2=10$
13. Distinguish between continental shelf and continental slope.

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111
$$

14. Give an wovint of the hevl weation of the wa 15. What is It-S Digsnan " Explan is denilicmec. 1445
15. Detine Oore, Write a short note on terrigenous deposits
$1+4=5$

$$
\mathrm{P}-1(1+1+1) \mathrm{H} / 18(\mathrm{~N})
$$

## 2018

## GEOGRAPHY (Honours)

## Poper Code : I-C

[New Syllabus]
Time : Two Hours
The figures in the margin indlicate full marks.

## GEOMORPHOLOGY

Section - 1
Answer any one question. $\quad 10 \times 1=10$

1. Define mass movement. What is the difference between weathering and mass-movement? Explain the characteristics of major types of mass movernent. 2+2+6=10
2. Briefly describe the landforms associuted with folded structure. Differentiate between dip and strike. $\quad 6+4=10$

> Section - II

Answer any four questions. $\quad 5 \times 4=20$
3. Distinguish between branded and meandering churnel.

5
P.T.O.
$1 / 129-1200$

## (2)

4. How Penk's model of cyele of erosion differ from Davisian concept of normal cycle of erosion,
5. Wrie a short note on duricrusts.
6. What is graded river? Write a short note on erosional processes associated with river. 5
7. Differentinte between hazard and disaster. 5
8. Explain uny two fundamental concepts in geomorphology.
9. What are the impacts of positive and negative changer of base level on normal cycle of crosion.
10. Explain the basic mechanimms involved in the left bunk erosion of Gange in, Malda Distriet

## HYDROLOGY

$$
\begin{aligned}
& \text { Section - III } \\
& \text { Answer any one question. } \quad 10 \times 1=10
\end{aligned}
$$

11. What are the different forms of substance water? What is aquifer? Describe various types of aquifer. What is Darcy's law?

$$
3+1+4+2=10
$$

12. What is water harvesting? Why it is important? Explain various techniques of water harvesting in context of India.
$2+2+6=10$

## (3) <br> Section - IV

Answer any two questions.
$5 \times 2=10$
13. Describe ground water resource of India and its utilination
14. Expluin the factors affecting evapo-transpiration. 5
15. Discuss the global water budget.

5
16. Explain the significance of hypsometric curve for drainuge basin and lysis.

5


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[^1]:    $10=1 \mathrm{~m} 10$
     mfilmion of a regron? $2+2-10$
    
    

