ECONOMICS (PAPER I)

Full Marks: 100
Time: 2Hrs

1 Attempt all questions: 2*10 = 20

a. Define average utility.
b. State the law of diminishing marginal returns.
c. What is demand?
d. State any two exceptions to the law of demand.
e. State the conditions for consumer's equilibrium according to the ordinalist's approach.
f. Define marginal rate of substitution.
g. Plot the values of elasticity of demand on a straight line demand.
h. When is the value of income elasticity (i) greater than 1 (ii) less than 1?
i. Differentiate between inferior good and Giffen good.
j. State the transitivity assumption.

2. Attempt all questions   10*2 = 20

a. Laws of Return to scale.
b. Consumer's equilibrium according to cardinalist's approach.

3. Attempt any three questions: 20*3 = 60

a. Discuss consumer's equilibrium according to ordinalist's approach.
b. Explain price effect, substitution effect and income effect for an inferior good in case of a price fall.
c. Discuss the methods of measuring price elasticity of demand.
d. Explain the relation between total product, average product and marginal product. Which is the most efficient stage of production and why?
e. Derive long - run cost curve from short – run cost curves.

Paper I

Ms. Sengupta
Ms. Chatterjee
Mrs. Ghosh

Marks: 50
Time: 2 Hours

**Please answer in separate booklets for
GROUP A, GROUP B AND GROUP C**

GROUP A

A. Answer **any three** of the following questions: 3x5=15

1. a) What is an uncountably infinite set?
   b) Prove by mathematical induction method that P(A) has exactly 2^n elements where A is a finite set with n elements.   (2+3)
2. a) What is conditional probability?
   b) In an university 60% of professors are men and 40% are women. 50% of male professors and 60% of female professors know computer programming. Find the probability that a knowing programming is a male.   (2+3)
3. a) What is the principle of mathematical induction?
   b) Prove by mathematical induction that $8^n - 3^n$ is multiple of 5 for $n \geq 1$ (2+3)

4. a) What is a tautology and contradiction?
   b) Prove that using truth tables $\Box(p \Box q) = \Box \dot{p} \vee \Box q$ (2+3)
5. a) What is pigeonhole principle?
   b) In a survey it is reported that of 1000 programmers 650 habitually flowchart their programs, 788 are skilled COBOL programmers 675 are men, 278 of the women are skilled COBOL programmers, 440 programmers both habitually flowchart and are skilled in COBOL , 210 women habitually flowchart and 166 women are both skilled in COBOL and habitually flowchart. Would you accept these data as being accurately reported? Justify your answer.

                    (2+3)

GROUP B

Answer **any ONE** of the following questions:

1. What is meant by traversing? List the method of node traversing. How are binary trees represented? What are BSTs?   [2+5+5+3=15]

2. Explain different types of linked list with diagrams. How can a queue be represented using a linked list? What are the drawbacks of sequential storage? What is a priority queue?

GROUP C

Answer <u>any ONE</u> of the following questions:

1. a) Why NAND and NOR gates are called universal Gates? Explain (7)

   b) Explain the following terms

   i) BCD Code   II) Waighted Code

2. Number system conversion (15)

   a) $41.6875_{10} = (?)_2$

   b) $27.35_8 = (?)_2$

   c) Convert the decimal number 82 to base 6:

   d) $11101 = (?)_{10}$

   e) The decimal equivalent of an octal number 234.32 is (?)

GROUP D

Write a short note on **<u>any one</u>** of the following: (5)

1. ISO 9002

2. Necessity of Coding standards

****

PAPER I

Ms. Chandrani Sengupta
Ms. Swati Chatterjee
Ms. Saon Das

Full marks: 50
Time: 2 Hours

Please answer in separate booklets for GROUP A, GROUP B AND GROUP C

Group – A

Answer **any FOUR** of the following questions: (4x5=20)

1) How many committees of five people can be chosen from 20 men and 12 women?

   i)   If exactly three men must be on each committee.

   ii) If exactly four women must be on each committee.

2) If AUB=AUC and A∩B=A∩C then prove that B=C.

3) A relation R is defined on the set $\mathbb{Z}$ by "aRb if and only if a-b is divisible by 5" for a, b is belongs to $\mathbb{Z}$. Examine if R is equivalence relation on $\mathbb{Z}$.

4) If A B C are subset of a universal set S. Prove that

   [A∩(BUC)]∩[A'U (B'∩C')]=Θ [Θ means null set]

5) A survey of 500 television watchers produced the following information:285 watch TV serial,195 watch cricket ,115 watch news channel, 45 watch TV serial and cricket,70 watch cricket and news channel 50 watch TV serial and news channel, and 50 do not watch any of the three kinds of TV program.

   i)   How many people in the survey watch all three kinds of program?

   ii) How many people watch exactly one of the TV program?

6) In a box there are 10 black balls and 12 blue ball and you need to get one pair of ball of the same colour. Supposing you can take balls out of the box only once and only without looking, how many balls do you have to pull out together?

7) Prove by mathematical induction:

$$1^3+2^3+3^3+4^3+5^3+\ldots\ldots\ldots\ldots+n^3 = (n (n+1)/2)^2$$

Group – B

1. Define a linked list. Explain the node structure. Explain single and double linked list with diagrams.   [2+3+10=15]

2. Describe array and linked representation of binary tree.   [15]

3. Define queue. Explain the data structure queue. What is priority queue? Differentiate between stacks and queues.   [2+6+2+5=15]

Group - C

1. convert the following decimal numbers to binary , octal and hexadecimal numbers

   a) 147   b) 36   c) 76

2. Construct circuits for the following Boolean expressions :

   a) $Q=A\overline{B} + \overline{A}B$
   b) $Q = AA+AB+AC+BC$

3. State and prove DeMorgan's Theorems.

4. Derive the circuit for Full Adder using two Half Adders.

5. Write short note on (any two)
   a) Combinational Logic.
   b) Principles of Duality
   c) IEEE Symbols.
   d) Booting.

PAPER II

Ms. Chandrani Sengupta
Ms. Swati Chatterjee
Ms. Saon Das

Full marks: 50
Time: 3 Hours

Group – A

Answer **any ONE** of the following questions: [20]

1) **First set**

a) Write a C program to print Fibonacci series within a given range.
b) Write a C program to calculate the value of sin(x).
c) Write a C program to check whether a point (x, y) is in the origin or in the x-axis or y-axis using function.
d) Write a C program to print the following.

```
    1
   222          (number of row should be given by the
  33333             user)
   222
    1
```

2) **Second set**

a) Write a C program to print all the prime number in a given range.
b) Write a C program to choose r number of object among m object. The value of m and r should be given by user.
c) Write a C program to calculate the value of exp(x).
d) Write a c program to print following.

```
    1111111
     22222        (number of row should be given by the
      333             user)
       4
```

Answer **any TWO** of the following questions: [15]

1) Write a program in any scripting language to store N names by the user and print it in descending order.

2) Write a program in any of the scripting language Perl/Python/Tcl to compute the sum of all positive even numbers from 10 random numbers given by users.

3) Write a program in any of the scripting language Perl/Python/Tcl to input two strings by the user and print it in one line.

4) Write a program in any of the scripting language Perl/Python/Tcl to read one line from user like "I am Girl" after that insert a in between to make it correct sentence.

5) Write a program in any of the scripting language Perl/Python/Tcl to store 5 words in one array and another 5 words in one another array after that print all the words in ascending order.

6) Write a program in any of the scripting language Perl/Python/Tcl to find out all non-prime numbers from a series from 10 To 30.

Group – C

Answer **any ONE** of the following questions:

1. Write three linked HTML web page which uses title, hyperlink, image, unordered list, preformatted text, center, definition list, hr. [15]

Full marks: - 25   **Time:-1 hr**

प्र01. निम्नलिखित प्रश्नों में से किसी एक प्रश्न का उत्तर दो।   **15**

   क) आदिकाल की विशेषताओं पर प्रकाश डालिए।

   ख) हिंदी साहित्य के इतिहास के कालविभाजन और नामकरण पर एक निबंध लिखो।

प्र02. निम्नलिखित प्रश्नों में से किसी एक प्रश्न का उत्तर दो।   **5**

   क) आदिकाल को वीरगाथाकाल कहना कहां तक सही है ?

   ख) अमीर खुसरो के काव्य की विशेषता लिखिए।

प्र03. निम्नलिखित प्रश्नों में से किन्हीं पाच प्रश्नों के उत्तर दो।   **1x5=5**

   क) आदिकाल को वीरगाथाकाल किसने कहा ?

   ख) पहेलियां और मुकरी किसने लिखी ?

   ग) किस रासो काव्य को आल्हखण्ड भी कहते है ?

   घ) चंदबरदाइ पर टिप्पणी लिखो।

   ङ) 'संदेश रासक' किसने लिखा है ?

   च) रीति काल की शुरुआत कबसे मानी जाती है ?

Full marks: - 25   **Time:-1hr**

प्र01. निम्नलिखित प्रश्नों में से किसी एक प्रश्न का उत्तर दो।   **15**

   क) आदिकाल की विशेषताओं पर प्रकाश डालिए।

   ख) सूफी काव्यधारा की क्या विशेषताएं हैं ?

प्र02. निम्नलिखित प्रश्नों में से किसी एक प्रश्न का उत्तर दो।   **5**

   क) आदिकाल को वीरगाथाकाल कहना कहां तक सही है ?

   ख) अमीर खुसरो के काव्य की विशेषता लिखिए ।

प्र03. निम्नलिखित प्रश्नों में से किन्हीं पांच प्रश्नों के उत्तर दो।   **1x5=5**

   क) आदिकाल को वीरगाथाकल किसने कहा ?

   ख) भक्तिकाल की शुरुआत कबसे मानी जाती है ?

   ग) महावीर प्रसाद द्विवेदी किस पत्रिका के संपादक थे ?

   घ) कबीर की एक रचना का नाम लिखिए ।

   ङ) 'संदेश रासक' किसने लिखा है ?

   च) रीति काल की शुरुआत कबसे मानी जाती है ?

प्र०१। हिंदी दिवस पर एक प्रतिवेदन लिखिए   ।   **10**

प्र०२। निम्नलिखित शब्दों में से किन्हीं पांच के हिंदी रूप लिखिए ।   **5**
Assured , Borowed Note , Coding , Consignment, Gurantee, Export

प्र०५। **'हो गई है पीर पर्वत सी'** कविता का मूल भाव स्पष्ट कीजिए ।   **10**
या
'बीती विभावरी जाग री' कविता का मूल भाव स्पष्ट कीजिए ।

प्र०१। निम्नलिखित अवतरण से संबंधित प्रश्नों के उत्तर दीजिए ।

संस्कृति ऐसी चीज है जिसे लक्षणों से तो हम जान सकते है किन्तु उसकी परिभाषा नहीं दे सकते । कुछ अंशों में वह सभ्यता से भिन्न गुण है । अंग्रेजी में कहावत है सभ्यता वह चीज है जो हमारे पास है, संस्कृति वह गुण है जो हममें व्याप्त है । मोटर, महल, सड़क, हवाईजहाज, पोशाक और अच्छा भोजन, ये तथा इनक समान सारी अन्य स्थूल वस्तुएं संस्कृति नहीं, सभ्यता के सामान है । मगर पोषाक पहनने और भोजन करने में जो कला है वह संस्कृति की चीज है ।

हर सुसभ्य आदमी सुसंस्कृत ही होता है, ऐसा नहीं कहा जा सकता, क्योंकि अच्छी पोशाक पहनने वाला आदमी भी तबीयत से नंगा हो सकता है । और तबीयत से नंगा होना संस्कृति के खिलाफ बात है । और यह भी नहीं कहा जा सकता कि हर सुसंस्कृत आदमी सभ्य ही होता है, क्योंकि सभ्यता की पहचान सुख सुविधा और ठाट बाट से है ।

क। यह अंश कहा से लिया गया है ? इसके लेखक कौन है ?   3

ख। क्या सुसंस्कृत आदमी सभ्य होता है ? तर्क दो ।   3

अथवा

किन्ही दो प्रश्नों के उत्तर दो ।   2x3=6

क। भारतीय संस्कृति लेखक की नजर में श्रेष्ठ क्यों है ?

ख। भारत ने किस तरह की संपत्ति को अधिक महत्व दिया है ?

प्र०२। निम्नलिखित शब्दों में से किन्हीं पांच के हिंदी रूप लिखिए ।   5
Assured , Borowed Note , Inflation, Consignment, Gurantee, Advance ,

प्र०४। वापसी कहानी के शीर्षक की सार्थकता पर विचार करो ।   7

या

'मुक्तिमार्ग' कहानी के उद्देश्य पर प्रकाश डालें ।

प्र०५। 'हो गई है पीर पर्वत सी' कविता का मूल भाव स्पष्ट कीजिए ।   7

या

'सबेरे उठा तो धूप खिली थी' कविता का मूल भाव स्पष्ट कीजिए ।

प्र०१। निम्नलिखित अवतरण से संबंधित प्रश्नों के उत्तर दीजिए ।

संस्कृति ऐसी चीज है जिसे लक्षणों से तो हम जान सकते है किन्तु उसकी परिभाषा नहीं दे सकते । कुछ अंशों में वह सभ्यता से भिन्न गुण है । अंग्रेजी में कहावत है सभ्यता वह चीज है जो हमारे पास है, संस्कृति वह गुण है जो हममें व्याप्त है । मोटर, महल, सड़क, हवाईजहाज, पोशाक और अच्छा भोजन, ये तथा इनके समान सारी अन्य स्थूल वस्तुएं संस्कृति नहीं, सभ्यता के सामान है । मगर पोशाक पहनने और भोजन करने में जो कला है वह संस्कृति की चीज है ।

हर सुसभ्य आदमी सुसंस्कृत ही होता है, ऐसा नहीं कहा जा सकता, क्योंकि अच्छी पोशाक पहनने वाला आदमी भी तबीयत से नंगा हो सकता है । और तबीयत से नंगा होना संस्कृति के खिलाफ बात है । और यह भी नहीं कहा जा सकता कि हर सुसंस्कृत आदमी सभ्य ही होता है, क्योंकि सभ्यता की पहचान सुख सुविधा और ठाट बाट से है ।

क। यह अंश कहा से लिया गया है ? इसके लेखक कौन है ?	**3**
ख। क्या सुसंस्कृत आदमी सभ्य होता है ? तर्क दो ।	**3**

अथवा

किन्ही दो प्रश्नों के उत्तर दो ।   **2x3=6**
क। भारतीय संस्कृति लेखक की नजर में श्रेष्ठ क्यों है ?
ख। भारत ने किस तरह की संपत्ति को अधिक महत्व दिया है ?

प्र०२। निम्नलिखित शब्दों में से किन्हीं पांच के हिंदी रूप लिखिए ।   **5**
    Assured , Borowed Note , Inflation, Consignment, Gurantee, Advance ,

प्र०४। वापसी कहानी के शीर्षक की सार्थकता पर विचार करो ।   **7**
या
'**मुक्तिमार्ग**' कहानी के उद्देश्य पर प्रकाश डालें ।

प्र०५। 'हो गई है पीर पर्वत सी' कविता का मूल भाव स्पष्ट कीजिए ।   **7**

या
'सबेरे उठा तो धूप खिली थी' कविता का मूल भाव स्पष्ट कीजिए ।

Full marks: - 25   Time: - 1hr

प्र01. क) आदिकाल की विशेषताओं पर प्रकाश डालिए।   1x10 = 10
              अथवा
      ख) रामभक्ति काव्यधारा की क्या विशेषताएं हैं ?

प्र02. निम्नलिखित प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर दो।   2x5=10

      क) आदिकाल को वीरगाथाकाल कहना कहां तक सही है ?
      ख) सूफी काव्यधारा की क्या विशेषता हैं ?
      ग) सगुण भक्ति से आप क्या समझते है ?

प्र03. निम्नलिखित प्रश्नों में से किन्हीं पांच प्रश्नों के उत्तर दो।   1x5=5

      क) आदिकाल को वीरगाथाकल्प किसने कहा ?
      ख) भक्तिकाल की शुरुआत कबसे मानी जाती है ?
      ख। सूरदास के गुरू कौन थे ?
      ग। अष्टछाप की रचना किसने की ?
      घ। दो सूफी कवियों के नाम बताइए ।
      च। आदिकाल को बीजवपन काल किसने कहा था ?

प्र०१। निम्नलिखित अवतरण से संबंधित प्रश्नों का उत्तर दीजिए ।

अगर यूरोप से भारत का संपर्क नहीं हुआ होता तो भारत की विचारधारा पर विज्ञान का प्रभाव देर से पड़ता और राममोहन राय,दयानंद,गांधी में से कोई भी सुधारक उस समय जन्म नहीं लेते जिस समय उनका जन्म हुआ । जब भी दो जातियां मिलती हैं, उनके संपर्क या संघर्ष से जिंदगी की एक नयी धारा फूट निकलती है , जिसका प्रभाव दोनों पर पड़ता है । आदान प्रदान की प्रक्रिया संस्कृति की जान है और इसी के सहारे वह अपने को जिंदा रखती है ।

क। यह गद्यांश किस निबंध से लिया गया है ? इसके लेखक कौन हैं ?	3
ख। संस्कृति किस प्रकार विकसित होती है ?	6
ग। रेखांकित अंश की व्याख्या करें ।	6

अथवा

किन्हीं तीन प्रश्नों के उत्तर दो ।   3x5=15

क। गिल्लू का चरित्र कैसा है?
ख। भारत ने किस तरह की संपत्ति को अधिक महत्व दिया है ?
ग। लेखक ने निराश न होने के पक्ष में क्या तर्क दिए हैं ?
घ। संस्कृति और प्रकृति में क्या अंतर है ?

प्र०२। शहर में बम विस्फोट पर एक प्रतिवेदन लिखिए ।   10
        या
        नारी दिवस पर एक प्रतिवेदन लिखिए ।

प्र०३। निम्नलिखित शब्दों में से किन्हीं पांच के हिंदी रूप लिखिए ।   5
        Advance , Dividend , Inflation , Exchange, Approval, Mint

प्र०४। 'वापसी' कहानी के उद्देश्य पर प्रकाश डालें ।   10
        या
        'मुक्तिमार्ग' कहानी के उद्देश्य पर प्रकाश डालें ।

प्र०५। 'बीती विभावरी जाग री' कविता का मूल भाव स्पष्ट कीजिए ।   10

        या
        'सबेरे उठा तो धूप खिली थी' कविता का मूल भाव स्पष्ट कीजिए ।

Loreto College
First Year Terminal Exam 2008
First Paper
Elective Hindi

Full marks: - 100   **Time:- 2hrs**

प्र01. निम्नलिखित प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर दो।   **2x30=60**

क) आदिकाल की विशेषताओं पर प्रकाश डालिए।
ख) सूफी काव्यधारा की क्या विशेषताएं हैं ?
ग) रामभक्ति काव्यधारा की क्या विशेषताएं हैं ?
घ) रीतिकाल की विशेषताओं पर प्रकाश डालिए।
ङ) छायावादी युग की विशेषताएं बताइए।
च) प्रयोगवादी युग की विशेषताएं बताइए।

प्र02. निम्नलिखित प्रश्नों में से किन्हीं तीन प्रश्नों के उत्तर दो।   **3x10=30**

क) आदिकाल को वीरगाथाकाल कहना कहां तक सही है ?
ख) अमीर खुसरो के काव्य की विशेषता लिखिए।
ग) रीतिकाल और आधुनिक काल में क्या अंतर है?
घ) सरस्वती पत्रिका ने हिंदी साहित्य में क्या योगदान दिया?
ङ) प्रगतिवाद की मूल चेतना क्या है ?
च) सगुण भक्ति से आप क्या समझते है ?
छ) कबीर कैसे कवि है ?
ज) विद्यापति कैसे कवि है ?

प्र03. निम्नलिखित प्रश्नों में से किन्हीं दस प्रश्नों के उत्तर दो।   **1x10=10**

क) आदिकाल को वीरगाथाकाल किसने कहा ?
ख) भक्तिकाल की शुरुआत कबसे मानी जाती है ?
ग) महावीर प्रसाद द्विवेदी किस पत्रिका के संपादक थे ?
घ) प्रयोगवाद के प्रवर्तक कौन है ?
ङ) महादेवी किस युग की कवियत्री है ?
च) 'कामायनी' किसकी रचना है ?
छ) कबीर की एक रचना का नाम लिखिए।
ज) 'संदेश रासक' किसने लिखा है ?
झ) केशवदास किस युग के कवि है ?
ञ) प्रतापनारायण मिश्र किस युग के कवि है ?
ट) भारतेंदु का जन्म कब हुआ?
ठ) रीति काल की शुरुआत कबसे मानी जाती है ?

Candidates are required to submit the scripts of Paper 1 and Paper 2 separately.

Paper 1   Full Marks 50

1a. Comment on the nature and extent of the Scandinavian influence on the English language. Why is it referred to as democratic'?   15

or

1b. Make a survey of French loans in English with reference to the period of borrowing.

2a. Write a short essay on Caedmon's contribution to Anglo-Saxon Christian poetry.

or

2b. Trace the evolution of the Elizabethan sonnet form with special reference to any two Elizabethan sonnet writers.

or

2c. Write an essay on the essential features of Restoration comedy.

or

2d. Consider the importance of the *Lyrical Ballads* in the history of the Romantic movement in England.

or

2e. Assess the importance of Sir Walter Scott in the history of the English novel.   15

3. Write short notes on **any two** of the following: 2x5
The poetry of Samuel Butler; Robert Southey; Dickens' historical novels; *The Faerie Queene*; *The Ruin*; Cynewulf's signed poems; Keats' Odes.

4. Briefly answer **any five** of the following: 5x2
a. In which dialect is the Beowulf manuscript written? Where is the manuscript preserved?
b. What does 'Widsith' mean? When did Augustine arrive in Britain?
c. In what language was Sir Thomas More's *Utopia* originally written?
d. Name any two anthologies of Elizabethan lyric verse.
e. Name any two satires written by John Dryden.
f. Who wrote *The Beaux Stratagem*?
g. Who wrote *The Rowley Poems*? Name a ballad contained in *The Rowley Poems*.
h. Name any two Prophetic Books by William Blake.
i. In which period of history is *Henry Esmond* set?
j. In which novel will you encounter the figure of Savanarola?

1. Write a critical appreciation of the following poem.   15

<div align="center">

The Country Clergy
I see them working in old rectories
By the sun's light, by candlelight,
Venerable men, their black cloth
A little dusty, a little green
With holy mildew. And yet their skulls
Ripening over so many prayers,
Toppled into the same grave
With oafs and yokels. They left no books,
Memorial to their lonely thought
In grey parishes; rather they wrote
On men's hearts and in the minds
Of young children sublime words
Too soon forgotten. God in his time
Or out of time will correct this.

</div>

2a. Attempt a critical analysis of ' The Good Morrow'.
                        or
2b. Write a note on the theme and structure of 'Loving in truth'.
                        or
2c. Account for the popularity of Gray's 'Elegy Written in a Country Churchyard'.   15

3. Write short notes on **any two** of the following literary terms: 2x5
heroic couplet; blank verse; ballad; carpe diem; pastoral elegy; mock-epic

4. Briefly answer **any five** of the following: 5x2
a. Explain the allusion to the "seven sleepers" in 'The Good Morrow'.
b. What does Donne mean by country pleasures'?
c. Why does Donne feel that he cannot find "two better hemispheres" ?
d. Explain the line "Whatever dies was not mixed equally"…
e. Why does Sidney search "fit words" for his poetry?
f. Explain the line "'Fool', said my Muse to me, 'look in thy heart and write' "…
g. What, according to the Argument of *Paradise Lost* [Book 1], was the prime cause of Man's fall?
h. "…and the Fruit of that Forbidden Tree…"
   Explain the pun on the word 'fruit' in the above-given line.
i. In which verse-form is *Paradise Lost* written?

Total marks: 50

Time: 2 Hours

Mrs. M.G. Chakraborty
Dr. M.K. Kapoor
Dr. S. Dasgupta
Ms. S. Ghosh

1. Answer any six: 2x6=12

a. How does the poet plan to immortalize the young man in the sonnet *Shall I Compare Thee to a Summer's Day?*

b. Why does the poet say that he will not be able to hear the wind sighing and the rain lamenting in Walter de la Mare's poem?

c. Mention the two images of human beings to which Shelley compares the skylark.

d. What does Milton mean by 'day labour'?

e. What does Wordsworth call 'Kind Nature's gentlest boon'?

f. What are the two reasons Shakespeare gives why 'every fair from fair sometime declines'?

g. What legacy does Lucy leave at the end of the poem *Three Years She Grew in Sun and Shower?*

h. Why does Shelley wish to have the skylark's skill?

i. Who serves God best, according to Patience in Milton's sonnet?

j. Name two birds mentioned by Keats in *To Autumn*.

k. Which 'fond and wayward thought' slides into the poet's head in *Strange Fits Of Passion Have I Known?*

l. What does Nature wish to make of Lucy?

m. What comparison does the poet use to describe the ships in Auden's *Look Stranger?*

2. Identify and explain any two of the following figures of speech: 2x3=6

i. The furrow followed free.

ii. I wandered lonely as a cloud

iii. Breathes there a man with soul so dead?

iv. Fair Daffodils, we weep to see
You haste away so soon.

v. Where Beauty cannot keep her lustrous eyes

vi. With them the seed of Wisdom did I sow

3. Answer any two questions: 16x2=32

a.i. What are the different ways in which Keats describes the season of Autumn? Illustrate your answer with suitable textual examples

OR

ii. Discuss Shelley's use of imagery in *To A Skylark*.

b. Analyse the character of Ulysses in Tennyson's poem.

c. Attempt a critical appreciation of Wordsworth's *Three Years She Grew in Sun and Shower*.

d. Analyse the connection between structure and theme in Milton's *On His Blindness*.

e. How does Shakespeare establish the superiority of his friend's beauty through the imagery of a summer's day?

****

Use separate scripts for Paper I and Paper II

Paper I
History of English Literature

I Answer any two of the following: (2 x16 marks)

1 Make a critical estimate of Old English lyrical and elegiac poetry.

2 Trace the development of the Sonnet form during the Elizabethan Age.

3 Write a note on the essential characteristics of Restoration Comedy

4 Write a critical essay on the range and variety of the English Novel.

5. Give a critical account of World War I poetry

II Write short notes on any four of the following: (3 x7 marks)

a)	Widsith	f)	Hudibras
b)	The Pagan Element in Beowulf	g)	Macflecnoe
c)	The Shepherd's Calendar	h)	The Seasons
d)	Ovidian Narrative verse	i)	Dickens and the Historical Novel
e)	Pilgrim's Progress	j)	Mary Barton

Philology

III Answer any one: (1x 12 marks)

i) Write a note on the range and extent of the Scandinavian Influence. How does it differ from the French Influence?

ii) Examine the French loans in the English Language. What do they indicate about the relationship of the speakers of these two languages in Medieval England?

IV Write word notes on any **four** of the following: (5x2 marks)
Gift, church, beef, shirt, king, puny, law, judge, theft, lady.

Paper II
Poetry

1. Analyse the blend of classical and Christian elements in the first 26 lines of Paradise Lost. (16 marks)

2. Annotate the following lines: (9 marks)
Where can we find two better hemispheres
Without sharp north, without declining west?
Whatever dies, was not mix'd equally;
If our two loves be one, or thou and I
Love so alike that none do slacken, none can die.

GROUP-A

1. Answer any two questions: (5x2=10)

   a) Why and how did Rama Rao want to put an end to his life?
   b) Who is the "sweetest thing that ever grew"? How does the poet describe her?
   c) Why did Deepak return the wad of notes?
   d) Describe the poet's restlessness to meet God in "Gitanjali XVII"?
   e) What plans did Rama Rao make for the money he would get by selling his house?

2. Answer any five questions: (2x5=10)

   a) "God, you have shown me mercy". Who said this and when?
   b) What measures of economy did Rama Rao's wife take?
   c) Where did Lucy Gray dwell?
   d) How does the poet pass his daytime in "Gitanjali XVII"?
   e) Why did Deepak hesitate to board the train?
   f) "Now you'll get paid regularly". Who says this and why?

Answer any five questions: (1x5=5)

a) How old was Rama Rao?
b) Whom does the poet address as 'love' in "Gitanjali XVII"?
c) What was Deepak's real name?
d) Name the journal that Rama Rao came across. Where did he find the journal?
e) Why did Lucy Gray not reach the town?
f) Which train did Deepak miss?

GROUP-B

1. a) Write a letter to the editor of a newspaper about the soaring prices of books.   1

OR

   b) Write two or three coherent paragraphs on the global rise of terrorist activities.

2. Read the following passage carefully and answer the questions that follow:

In 1760, a man named Tiphaigne de la Roche made a bizarre prediction. In an imaginary story called "Giphantie", mirror images of scenes from nature could be captured permanently on a canvas covered with a sticky material. After the material dried in darkness, the image would remain on the canvas forever. At the time, the idea was unheard of. It was not until the following century that the concept of photography was born, starting with some experiments by Nicephore Niépce.

Nicephore Niépce, who was a French inventor, was interested in lithography, which is a printmaking technique. He was experimenting with lithography when he found a way of copying etchings onto glass and pewter plates using a chemical that changes when it is exposed to light. He learned to burn images onto the plates and then print the images on paper. He shared his findings with Louis Jacques Mandé Daguerre, who improved the process and announced it to the French Academy of Sciences in 1839. The Daguerreotype, the photography method named after Daguerre, met with great success. It was so successful, in fact, that French newspapers said the French public had an illness called "Daguerreotypomania"! Daguerreotypes were inexpensive and were suitable for portraiture. People called the Daguerreotype a "mirror with a memory." Some portrait artists went out of business when Daguerreotypes came into vogue. Others became Daguerreotypists, now known as photographers.

a. How was the concept of photography born?   5

b. Why did the French newspapers declare that the French public had an illness called "Daguerreotypomania"?   5

3. Answer the following questions: 1x5=5

   a. Give the verb form of 'success'.

   b. Fill in the blank with a preposition:

     The boy is related _____ me.

   c. Give the adjective form of 'burn'.

   d. Give the adverb form of 'public'.

   e. Give the noun form of 'include'.

2. Write a substance of the following passage and add a critical note: (10)

The obstacles in the way of women's were moral as well as political. Women were compelled not merely to keep up social appearances, but also to conform to a tradition of Christian ascetic morality. Long after men had abandoned their uncomfortable formal clothes, women were still submitting to extraordinary inconveniences in the name of modesty. It was the war which liberated them from their bondage. When women began to do war work, they found that the traditional modesty in dress was not compatible with efficiency. They preferred to be efficient. Having discovered the advantages of immodesty, they have remained immodest ever since, to the great improvement of their health and increase of their personal comfort. Modern fashions are the most comfortable that women have ever worn.

PAPER VII

SB
PS

1. Answer the following question: (15)

a) Comment on the content and style of the essays 'On Studies' and 'Of Travaile' by Francis Bacon. (15)

2. Attempt any **one** of the following: (10)

a) Write a short story on a young patient who is fighting for his life.
OR
Write a supernatural story based on the title 'It was midnight'.

b) Write a travel narrative about a visit to a forest area of your choice.

c) Write a dialogue between two friends about the recent happenings in their college.

d) Write a short poem (12 – 16 lines) on the theme of *creatures great and small*.

OR

Write a poem based on the title 'Come into my parlour'.

PAPER VIII

AMERICAN LITERATURE

SDG
SG

Answer Questions 1 and 2.

1a) According to Poe a tale should have "complexity, suggestiveness and ...an undercurrent of meaning." Discuss with reference to *The Fall of the House of Usher*.   (15)

OR

b) Discuss Poe's use of symbolism in *The Fall of the House of Usher*.   (15)

2a) Attempt a critical appreciation of Frost's *The Road Not Taken*.   (10)

OR

b) How far is Muriel Rukeyser anti-mythological? Give reasons for your answer.   (10)

INDIAN WRITING IN ENGLISH

MGC
SB

Answer any **one** of the following:

1 a) Discuss the character of Ammu as portrayed by Arudhati Roy. **(15)**
   b) The snake as a symbol in *The Guide*. **(10)**

OR

2. a) Critically comment on R K Narayan's narrative technique in *The Guide.(15)*
   b) Environmental issues in *The God of Small Things*. (10)

Group-A

Dr. R. Banerjee

Marks-25
Time: 2 hours

Answer Question No. three and any two.

1. Define education. Explain the term " Education is life-long". Enumerate the scope of education. 10
2. Why does education need an aim? What according to you is the socialistic aim of education? 10
3. Write a short paragraph on 'Education for Growth'. 5
4. Education must help an individual to be morally and culturally developed-Explain. 10

Ms. R. Dawn

Marks 25

Group B

1. Answer any *one* of the following questions:

a. According to Swami Vivekananda, education is the 'manifestation of perfection already in man'-Explain. What was Vivekananda's concept of 'freedom'? Show how he sought to attain freedom through education? 8+3+4

b. 'Education must be according to nature'- Rousseau. Explain Rousseau's concept of nature and bring out the significance of Negative Education

15

2. Answer any *two* of the following questions: 2X5
a. Gifts and Occupations
b. Vivekananda's concept of Mass Education
c. Rousseau's opinion about women education
d. Froebel's Kindergarten method

FIRST YEAR TERMINAL EXAMINATIONS
EDUCATION HONOURS
Mrs. V. Poddar
Dr. N. Dang
PAPER II

Time: 2 hrs.
Marks: 25

GROUP-A

1. Answer any one question:

(a) Explain moral development according to Kohlberg's theory. (14)
(b) Explain the main concepts used in Piaget's theory. Discuss the stages of
cognitive development according to Piaget. (4+10)

2. Answer any one question: (5x1)

(a) Discuss comparatively the characteristics of emotion in infancy and adolescence.
(b) Discuss the problems of adolescence due to physical development.
(c) Mention the first two stages of psycho-social development in Erickson's theory and
explain the second one.

3. Answer any two questions: (3x2)

(a) What do you mean by identity crisis?
(b) What is moral development?
(c) What are the factors that determine emotional development?
(d) Why is adolescence known as a period of storm and stress?

GROUP-B

Dr. N. Dang

Marks-25

1. Answer any one question of the following: (20)

(a) Describe the different perspectives in psychology. Why is it necessary to have
perspectives in psychology. 14+6
(b) Explain the processes of Classical conditioning as explained by Pavlov. 14+6
(c) Describe how learning can be instrumentally conditioned.as explained by Skinner.
How far is human learning dependent on it? 14+6
(c) Describe attention as a process. Identify the factors of attention. Which of these can
be utilized in the field of education to enhance learning? 6+ 8 + 6

2. Answer any one of the following: 1x5

a) Identify the major laws of learning by Thorndike and give their educational
implications..
b) Explain the meaning of Insight learning and its educational implications.
c) Explain if divided attention is possible. Give the meaning of distraction of attention.
d) Explain the concepts of span of attention and fluctuation of attention.

Dr. N. Dang

Marks-50
Time: 2 hours

1. Answer any <u>two</u> of the following: 2x16

a. Discuss the modern concepts of education and their applications in our life. 10+6

b. Explain how education can be regarded as a social process.   16

c. Describe the functions of education and their relevance in our lives. 10+6

d. Identify the characteristics of Child-centric education. How far is education child-centric?   10+6

e. Describe the role of a teacher in modern education.   16

2. Answer any <u>nine</u> of the following: 2x9

a. Give the etymological meaning of education.
b. Give one definition of education.
c. Show how education and social change are related.
d. Mention two functions of education.
e. Give two qualities of a teacher.
f. Who is regarded as the father of child-centric education? Name the book written by him.
g. Give the meaning of accretion.
h. Mention the essential idea of the "Faculty Theory of Mind".
i. Distinguish between formal, informal and non-formal education.
j. Why is education called a tri-polar process?

Mrs.S.Sahai

1. On the basis of the data provided draw a suitable cartogram to represent the population density of Kerala. (15)

Sl.No.	Districts	Area (sq.km)	Population
1	Alappuzha	1,414	21,09,160
2	Ernakulam	3068	31,05,798
3	Idukki	4,358	11,29,221
4	Kannur	2,966	24,08,956
5	Kasagod	1,992	12,04,078
6	Kollam	2,491	25,85,208
7	Kottayam	2,208	19,53,646
8	Kozhikode	2,344	28,79,131
9	Malappuram	3,550	36,25,471
10	Palakkad	4,480	26,17,482
11	Pathanamthitta	2,637	12,34,016
12	Thiruvananthapuram	2,192	32,34,356
13	Thrissur	3,032	29,74,232
14	Wyanad	2,132	7,80,619

2. Construct a Cylindrical Equal Area Projection with a R.F. 1: 75,000,000.The extent is from 40^0N to 20^0S and 160^0E to 140^0W with an interval of 10^0. (10)

Mrs Sethwala (25 Marks)

1) Draw a histogram and frequency polygon from the given data. (5+5)
2) Calculate the mean and the median for the same data. (2+2)
3) Draw the ogive and graphically show the median (4)

DATA FOR

Block Level West Bengal Government Sub-Health Centres

43 - 53	7
32 - 43	22
22 - 32	53
11 – 22	38
1 - 11	105

4) Draw a linear scale to show 1 km as primary marks and 200 m as secondary marks on a given R.F.of 1: 25000. (5)
5) Convert the following into a R.F   2cm represents 1km. (2)

Answer any four   4x2
8. What is Regolith?
9. Who are primary producers?
10. What is gravitational water?
11. Define Biome.
12. What is soil profile?
13. What is the difference between soil texture and soil structure?

Mrs.Sethwala

GROUP –C   (Climatology)   30 Marks

Category A   Answer any one   10x1

1) What is insolation ? Describe the horizontal distribution of temperature over the surface of the globe.
2) Discuss the origin and characteristic of tropical cyclones .
3) Classify worlds climlate accokrding to Koppen.

Category B   Answer any three   4x3

4) How does the monsoon winds originate ?
5) What is ozone hole ? How can iltss depletion be checked ?
6) What do you understand by the greenhouse effect? Is it the same as global warming . Explain
7) Differentiate between cyclone and anticyclone.
8) Explain the process by which the layers of the atmosphere originated. Mention the Composition, temperature, and density chasracteristics of Troposphere and Stratosphere.

Category C
                     Answer any four   2x4

9) What is meant by normal lapse rate of temperature ?
10) What are western disturbances ?
11) How does the retreat of SW Monsoon take place ?
12) What is the criteria used in Koppens classification ?
13) What are hurricanes and typhoons ?
14) What is albedo?
15) What is the eye of the cyclone ?

Mrs S. Ray Kumam

50 marks

<u>Category A</u>   Answer any 2   (2x10)

1. Define and classify regions. Identify the bases of delineation of physical regions in India.
2. Why are the Sunderbans regarded as a biotic region? What makes this region so distinctive?
3. How is DVC a planning region? Discuss the causes for its growth.and why it has not kept the pace and regressed to an area of stagnation.
4. Discuss the factors for the growth of Gujarat as an economically dominant region. Highlight the petroleum and related industry today.

<u>Category B</u>   Answer any 5   (5x4)

5. What threatens Sunderbans today?
6. What problems hinder the development of Gujarat region ?
7. Divide India into economic regions and give the basis of the division.
8. Explain with the help of examples how regions are classified by scale.
9. Which are the dams in the DVC region? What are the environmental dangers of these large dams.
10. What role has the cooperatives played in the development of dairy farming in Gujarat
11. What are the means of livelihood of the people of Sunderbans?

<u>Category C</u>   Answer any 5   (5x2)

12 . Name 4 tidal rivers of Sunderbans.
13. What is the significance of Jharia and Sindri?
14. Why did the textile industry emerge in Gujarat?
15. Name 2 thermal power plants of DVC region. How do these plants pollute?
16. Name a) a place of tourist interest and b) a place of fish collection and auction.
17. What are the major crops of Gujarat which lead to the growth of agro-based industry?
18. Why was Project Tiger taken up in Sunderbans?

FIRST HALF

1. Write Short Notes on any two of the following: 5x2= 10

   a) Normative Approach
   b) State
   c) Welfare State

2. Answer any one of the following: 20x1

   a) Analyze the Idealist Theory of State
   b) Discuss the Systems Approach to the Study of Politics
   c) Examine the Social Contract theory of the origin of the State

Second Half

1. Write Short notes on any two of the following: 5x2= 10
   a) Communism
   b) Base and Super structure
   c) Marxian concept of Freedom

2. Answer any one of the following:
   20x1
   a) Critically discuss the Marxian Theory of Dialectical Materialism. Bring out in this context the difference between Idealism and Materialism.
   b) Discuss the Marian concept of classes and class struggle. Do you think class struggle is the motive force of change in society? Give reasons for your answer.

Mrs. S. Mitra Deb
Dr.S. Chowdhury

Attempt all questions:

1. Attempt any one short note: 5

       (a) Rule of law in Britain.
       (b) Features of a socialist political system.

2. Attempt any one: 20x1

a) Analyze the features of a liberal democratic political system.

b) Make a comparative study between the party systems in UK and USA

Second Half

1. Attempt any one short note: 5

   a) Executive Privileges
   b) Bicephalous in France
   c) Collective Responsibility

2. Attempt any one: 20x1

a) Make a comparative study of the Executive under the Parliamentary and
   Presidential forms of government
b) "The State Council is the executive body of the highest organ of State Power"
   Discuss.
c) Discuss the differences and similarities between the British and French cabinet.

Ms. S. Dasgupta
Ms. A. Datta

F.M: 100   TIME : 4 hrs.

Mrs. S. Mitra Deb
Dr. S. Chowdhury

Attempt all four sections.

Section-I

1) Write a short note on any one:
   a) Feminist approach to politics.
   b) Difference between the Normative and Empirical approaches to political science.

2) Answer any one:
   a) Make a critical assessment of the post-behavioural approach to political science.
   b) Critically analyze the Idealist theory of the State.

Section-II

1) Write a short note on any one:
   a) Difference between Primitive Communism and Communist society.
   b) The contradictions inherent in Capitalism.

2) Answer any one:
   a) Discuss the phenomena of class-struggle as outlined by Marx.
   b) Write an essay on the theory of Dialectical Materialism.

Section III

1) Write a short note on any one:
   a) Rule of Law
   b) Parliamentary Sovereignty.

2) Answer any one:
   a) Make a comparative study between a liberal democratic and a socialist political system.
   b) Compare the British and American Party systems.

Section IV

1) Write a short note on any one:
   a) Collective Responsibility
   b) Senatorial Courtesy

2) Answer any one:
   a) "Executive is the core of the government" Justify with illustrations.
   b) Make a comparative study of the British and French Cabinets.

Ms. S. Tewari
Ms. A. Datta
Ms. S. Dasgupta

TIME : 2hrs
MARKS : 20×3

Answer all three questions:

1) Discuss the Social Contract theory regarding the State of Nature.
 OR
   Critically discuss Hegel's theory of the State.
2) Define the concept of liberty and discuss the various safeguards of liberty
 OR
   Write an essay on the theory of Historical Materialism.
3) Analyse the basic features of the British Constitution
 OR
   Make a comparative study between the liberal democratic and the socialist political systems.

Section III
1) Write a short note on any one:

First Year Terminal Examination
(November 2008)
History General Paper I (Group A & B)
Mrs. A Bandyopadhyay
Ms. S Chakravarty
F.M. 50

Group A

1) Answer any 5 of the following   (2X5=10)
a) Mention any two causes of the decline of the Indus Valley Civilisation.
b) What is the historical importance of the two epics Ramayana and Mahabharata?
c) What do you understand by the terms 'Sabha' and 'Samiti' of the Vedic period?
d) How important is the Indica of Megasthenese as a source of History?
e) Name any four of the 16 Mahajanapadas.
f) What are the main tenets of Mahavir's religion?
g) What was the significance of Ashoka's Kalinga War?

Group B

Answer any 2 of the following   (2X20=40)

2) Assess the importance of Archaeological sources for the study of Ancient Indian History.

3) Discuss the socio-economic condition of the early and later Vedic period.

4) What were the fundamental features of Buddhism? How far did the differ from Jainism?

5) Account for the rise of Magadha as a political power in ancient India.

(Group A: Mrs. S.Ghosh & Mrs. A Bandyopadhyay
Group B: Ms. S. Chakravarty & Mrs. K. Hazra)
Full Marks: 100

Both Group A and B are compulsory. Follow the instructions given for each group.

Group A
Answer <u>any two</u> of the following within 250 words: (2X5=10)

1. a) What are the characteristic features of the Mesolithic age in India?
   b) Comment on the importance of trade of the Harappan civilization .
   c) What was the content of Milindapanho ?
   d) Briefly discuss the achievements of Kanishka-I.

Answer any two of the following questions: (2X20=40)

2. Assess the importance of archaeological evidence for the study of Ancient Indian History.

3. Discuss the origin of the Harappan civilization in the light of recent archaeological excavations.

4. Critically analyse the political condition of India in the post-Mauryan period.

5. Give an account of the rule of the Satavahanas of Deccan.

Group B
Answer <u>any two</u> of the following within 250 words: (2X5=10)

1. a) Comment briefly on the regionalization of political power in early medieval India.
   b) What is the significance of Arab conquest of Sind?
   c) Who were the Khuts and muqaddams? Who subjugated them and why?
   d) What is the distinctiveness of Barani as a historian?

Answer <u>any two</u> of the following questions: (2X20=40)

2. Briefly discuss the importance of epigraphy as a source of early medieval Indian history.

3. Trace the growth of Bengal as a regional power under the leadership of the Palas.

PAPER- I

Mrs.S. Ganguly   **30 marks**

Answer any one   **10x1**

1. Describe and explain the various type of volcanoes and the depositional features created by them.

OR

Describe the characteristics of a fault landscape.

Answer any three   **3x4**

2. Explain the development of folds in rocks
3. Describe the general features of the mantle
4. "As the different erosional agents act upon the earth's surface there is produced an orderly sequence of land forms." – Explain
5. Explain the formation of nappe.

Answer any four   **4x2**

6. What is ignimbrite?
7. What is a thrust?
8. What are heave and throw of a fault?
9. What are P and S waves?
10. What are chevron and box fold?
11. What is a and pahoehoe?

Mrs S Ray Kumam   **10x1**

Discuss the links and nodes of the Global Hydrological Cycle.

Mrs Sethwala   **(30 Marks)**

Category A   (Answer any 1)   **1x10**

1) Discuss the influence of lithology on landforms with reference to the deccan trap of India the trap rock is that of basalt and the intertrappean beds are mainly shale, chert , impure limestone and pyroclastic materials.
2) Discuss the impact of deep weathering of rocks in humid tropics.

Category B(Answer any 3)   **3x4**

3) Explain why quartzite is generally regarded as a rildge former and shale as a valley former?
4) Explain the process of expansion resulting from unloading. What kind of geomorphic features are developed by this.
5) How does frost action break up rock? Describe the features created by frost action.
6) Discuss the different depositional environment for sedimentary rocks with examples.
7) Distinguish between a) hydration and hydrolysis
                       b) hydrolysis and carbonation

8) What are rock equivalents? Give two examples.
9) Name the clay minerals.
10) What is the effect of porosity and permeability on weathering?
11) Name the stages in the formation of sedimentary rocks.
12) Give any two characteristics of igneous rocks.
13) Name the most common rock forming minerals.

Miss R. Chatterjee.

Economic Geography (30 marks)

Answer any 2 questions from section A. Questions 5 and 6 are compulsory.

Section A

1: What is the difference between the iron and steel industries of India and Japan? Trace the development of the Iron and Steel Industry of India.   **(2+8)**
2. Is Von Thunen's model applicable today? How far is it successful in analyzing the agricultural landscape of India?   **(8+2)**
3. Discuss the factors that have influenced the location of the Canadian Paper Industry. **(10)**
4. Compare the cotton textile industries of India and U.S.A.. In which case is the locational advantage greater?   **(8+2)**

Section B

5. Draw the map of Japan showing the location of the principal industrial regions and the iron and steel producing centres.   **(5)**
6. Draw a map of U.S.A. showing the location of the Petrochemical Industry.   **(5)**

GROUP-A Geomorphology (20 marks)

Miss R. Chatterjee

Answer any 1 question. (1x10)
1. Discuss the features resulting from Marine Erosion with diagrams.
2. Critically analyse Davis's theory of landform evolution.

Answer any 2 questions. (4+ 4)
3. What is the difference between a yardang and a zeugen ?
4. What are the features of a floodplain?
5. Discuss the different types of delta with examples. Draw diagrams.
6. Under what conditions does river rejuvenation occur?

Answer any 1 question. (2)
7. Explain how a Dalmatian Coastline is formed?
8. What is a tombolo?

Mrs.S.Sahai

GROUP- B Climatology (14 marks)

Category A **Answer any three** **3x4**
1. What do you understand by Heat Budget?
2. Explain briefly the horizontal distribution of temperature.
3. What do you mean by Greenhouse effect and what are its consequences?
4. Write briefly on the factors affecting insolation.

Category B **Answer any one** **2x1**
4. What is Albedo?
5. What do you mean by Lapse rate?

GROUP- C Biogeography (16 marks)

Category A **Answer any three** **3x4**
1. Briefly explain the components of the ecosystem.
2. What is Ecological Pyramid? With the help of suitable examples and figures explain the different types of pyramids.
3. What are the differences between Food chain and Food Web?
4. What do you understand by GPP and NPP?

Category B **2x2**
5. Who are Autotrophs?
6. Define Ecosystem.

Mrs.S.Sahai

1. Draw a suitable cartogram to represent population density of Uttarakand (7)

Sl.No.	Districts	Area (sq.km)	Population
1	Almora	3,689	6,30,567
2	Bageshwar	1,696	2,49,462
3	Chamoli	7,520	3,70,359
4	Champawat	2,004	2,24,542
5	Dehradun	3,088	12,82,143
6	Garhwal	5,230	6,97,078
7	Hardwar	2,360	14,47,187
8	Nainital	3,422	7,62,909
9	Pithoragarh	7,169	4,62,149
10	Rudraprayag	2,439	2,27,439
11	Tehri Garhwal	3,796	6,04,747
12	Udhamsingh Nagar	3,055	12,35,614
13	Uttarkashi	8,016	2,95,013

2. Draw proportional circles to show the broad pattern of land utilization in the following districts of West Bengal in 2004-05. (8)

Districts	Cultivable area	Area not available for cultivation	Forest
Bankura	391025	148040	148930
Purulia	444525	105910	75048
24 Parganas (S)	397309	129759	426300
Darjiling	165463	35430	124576

Ms.R.Chatterjee

3. Use Wentworth's Average Slope Method and prepare a slope map of the given area from the given topo sheet. (10).

Mrs. S Ray Kumam

4. Draw a cross profile of the given section line (5)
5. Divide the given map into physiographic regions. Write on the macro and the micro features (10)

Mrs S. Sethwala

6. Draw a linear scale to show 2 kms as primary divisions and 500 mts as secondary divisions with a R.F of 1: 150,000 (5)
7. Draw a diagonal scale to show 5.64 kms and when the given R.F. is 1: 50000 (5)