

Class - 10

Holiday Home Work

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I. शब्द भंडार (व्याकरण)-

1. हम हमारे गाँव से वापस आ गए। (वाक्य शुद्ध कीजिए।)
2. 'सैनिक देश की रक्षा करता है।' (कर्मवाच्य रूप में बदलिए।)
3. 'वनोत्सव' में कौन-सी संधि है?
4. मेहनत करने वाले लोग कामियाब होते हैं। (मिश्र वाक्य में लिखिए।)
5. 'अत्यंत' का संधि-विच्छेद कीजिए।
6. तत्पुरुष समास का उदाहरण लिखिए।
7. मुझे पानी चाहिए। (नकारात्मक वाक्य में बदलिए।)
8. 'रोगग्रस्त' का समास विग्रह कर समास का नाम लिखिए।
9. वे खेल रहे हैं। (वाक्य का रूपांतरण कर्मवाच्य में लिखिए।)
10. पिता का तबादला होने पर दिल्ली आ गए। (वाक्य में प्रयुक्त कारक पहचानिए)
11. 'विद्यालय' शब्द का संधि-विच्छेद कीजिए।
12. वाह क्या बात है। (रेखांकित स्थान में प्रयुक्त होने वाला विरामचिह्न।)
13. जिसके समान दूसरा न हो।
14. 'जीवनसाथी' समास विग्रह कीजिए।
15. प्रीति मोंगा अपना काम करती हैं। (भाववाच्य में बदलिए।)
16. नाक (तत्सम रूप)
17. इतनी तेजी में गाड़ी मत चलाओ। (वाक्य शुद्ध कीजिए।)

18. अहा! कितना सुंदर दृश्य है! (रेखांकित शब्द का पद परिचय दीजिए।)
19. छात्रों को उचित-अनुचित का ज्ञान होना चाहिए। (प्रश्नवाचक रूप में लिखिए।)
20. परीक्षा शब्द का संधि विग्रह कीजिए।

II. भाषा की बात-नीचे दिये गये प्रश्नों के सही उत्तर चुनकर लिखिए।

1. 'समाप्ति' में प्रत्यय पहचानिए। ()
 (क) माप्त (ख) इ (ग) सम (घ) समा
2. 'प्रत्येक' (शब्द का उपसर्ग पहचानिए।) ()
 (क) प्र (ख) प्रति (ग) प्रत्ये (घ) एक
3. 'स्पर्श' (सही अर्थ पहचानिए।) ()
 (क) छूना (ख) सूँघना (ग) देखना (घ) खाना
4. शब्दकोश के क्रमानुसार सही होगा- ()
 (क) चम्मच, चमचम, चमक, चरक (ख) चमक, चम्मच, चमचम, चरक
 (ग) चमक, चमचम, चम्मच, चरक (घ) चमचम, चम्मच, चमक, चरक
5. उनके पास असीम शक्तियाँ हैं। (रेखांकित शब्द का विस्तार?) ()
 (क) जहाँ जाया न जा सके (ख) जिसका अंत न हो
 (ग) जिसकी सीमा न हो (घ) जिसे भेदा न जा सके
6. काम सुख है और प्रत्येक काम सही होता है। (रचना के आधार पर वाक्य भेद बताइए।)
 (क) सरल वाक्य (ख) साधारण वाक्य ()
 (ग) संयुक्त वाक्य (घ) मिश्र वाक्य
7. प्रीतिजी आपका बहुत-बहुत धन्यवाद। (अर्थ के आधार पर यह किस प्रकार का वाक्य है।)
 (क) विधानवाचक (ख) नकारात्मक ()
 (ग) प्रश्नवाचक (घ) विस्मयादिवाचक
8. सफेद छड़ी में कंपनशक्ति होती है। (रेखांकित शब्द में लुप्त कारक पहचानिए।) ()
 (क) का (ख) की (ग) से (घ) पर
9. जिस दिन सीखना छोड़ दोगे, वही दिन तुम्हारे पतन का होगा। (रेखांकित शब्द का विलोम शब्द लिखें।) ()
 (क) उत्सर्ग (ख) उत्थान (ग) उत्कर्ष (घ) उत्पन्न

10. पीछे-पीछे चलने वाला _____ कहलाता है- ()
 (क) अग्रसर (ख) अनुचरण (ग) अनुचर (घ) सहचर
11. पश्चिम की तरफ़ नज़र फैलाई। रेखांकित शब्द का शब्द - भेद पहचानिए। ()
 (क) संज्ञ (ख) संबंध बोधक
 (ग) समुयबोधक (घ) विस्मयादि बोधक
12. इनमें से पुनरुक्ति शब्द का सही उदाहरण है। ()
 (क) फिर-फिर (ख) आर्द-सुख (ग) रोम-सिहार (घ) पुलकावलि
13. 'चमन' शब्द का वचन बदलने पर शब्द होगा - ()
 (क) चमने (ख) चमनें (ग) चमन (घ) चमनाँए
14. इनमें से समोच्चारित शब्द है - ()
 (क) तपा-तापी (ख) मानव-माधव (ग) इधर-उधर (घ) ऊँचा-नीँचा
15. अनुशासन, अनुपालन, अनुमान, अपमान। शब्द कोशक्रम में सबसे पहले आनेवाला शब्द होगा। ()
 (क) अपमान (ख) अनुशासन (ग) अनुपालन (घ) अनुमान
16. निम्न वाक्यों में से उचित क्रमवाला वाक्य पहचानिए। ()
 (क) वे स्वभाव से अध्ययनशील बड़े थे। (ख) वे बड़े अध्ययनशील स्वभाव से थे।
 (ग) वे स्वभाव से थे बड़े अध्ययनशील। (घ) वे स्वभाव से बड़े अध्ययनशील थे।
17. 'बटोही' शब्द के पर्यायवाची शब्द है। ()
 (क) बाट, कोई (ख) राह, राहगीर
 (ग) मुसाफिर, यात्रा (घ) यात्री, मुसाफिर
18. आप आइए वाक्यांश में उचित विराम चिह्न होगा- ()
 (क) - (ख) ? (ग) ! (घ) ।
19. किस वाक्य में द्रव्यवाचक संज्ञा है? ()
 (क) दस गिलास में थोड़ा-सा दूध बचा है। (ख) उसमें थोड़े से अवगुण हैं।
 (ग) यह पेड़ ऊँचा है। (घ) बीमारी तेजी से फैल रही है।
20. 'श्रम से संचित'- इसका सामासिक शब्द है- ()
 (क) श्रमसंचय (ख) श्रमसंचयित (ग) श्रमसंचित (घ) श्रमसंचयन

1- تصدیق کی تعریف لکھیے۔

2- مسدس کی تعریف لکھیے۔

3- نظم-5۔ الیہلی صبح کے قواعد لکھیے (کلمہ کی تعریف معہ اقسام اور ان اقسام کی تعریف معہ مثال اور فعل ماضی کی اقسام لکھیے۔ اس کے لیے جماعت ششم کی درسی کتاب کی مدد لیجئے۔)

1) వార్తాపత్రికలో ప్రచురించబడిన ఏదైనా ఒక పేరాను తీసుకుని అందులోనుండి కొన్ని ప్రశ్నలను తయారుచేయండి.

2) మీ పాఠశాలలో జరిగే తెలుగు బాషా దినోత్సవమునకు ఆహ్వానిస్తూ ఒక ఆహ్వాన పత్రమును తయారు చేయండి.

3) తెలంగాణ ప్రభుత్వం అమలు చేస్తున్న పథకాలను గురించి తెలుపుతూ మీ మిత్రునికి లేఖ రాయండి.

I Given below is a sample formal letter requesting for the issue of a library card.

Leave a line	12 Park Street
→	Kolkata
→	July 20, 2019
→	To
	The Librarian
	Jingel Bells Academy
	Subroto Lane
→	Kolkata
→	Subject : Requesting for issue of library card
→	Madam
→	This is with reference the library cards issued to the students of class VII on the 18 th of July. I, Roshni Agarwal of VII A, hereby, inform you that since I was absent on the date mentioned above, I could not collect my library card.
→	I will be obliged if you could issue me a library card at the earliest possible. My half yearly exams are in the near future and I need to refer to books. I am extremely sorry for the inconvenience caused to you.
→	I thank you in advance for your kind help.
→	Yours sincerely
	Roshni Agarwal
	Student VII A

Now, write a letter to your Principal requesting him to allow your class for an educational tour.

(b) in the capital / the biggest / held / was / Industrial fair / last year

(c) my country / the people / of / are / than / more hardworking / those / your country / of

(d) give / a few / please / rupees / me

VI Read the conversation between Rajni and Shalu. Then complete the blanks given in the reported speech. Write the answers in your answer sheet. Do not copy the whole sentence.

Rajni : Hey Shalu ! You don't seem well. Is there any problem?

Shalu : Yes, I feel a bit of headache.

Rajni : Did you eat something heavy?

Shalu : May be. We attended a marriage yesterday.

1. Rajni wished Shalu and asked _____ as she didn't seem well.

2. Shalu replied that _____

3. Rajni asked her _____ something heavy.

4. Shalu replied that it might _____ a marriage.

VII Reading the following conversation between Hamid and Afzal and then complete the passage that follows. Write the correct option in the space provided.

Hamid : Good morning, Afzal. Do you read 'The Times of India'?

Afzal : Yes, I do so every morning.

Hamid : I think that newspaper reading is the curse of our time.

Afzal : I don't agree with you. They bring us the latest news and views.

Hamid : What I mean is that some newspapers are full of sensational news which have nothing to do with facts.

Hamid wished Afzal good morning and asked (a) _____. Afzal replied in the affirmative and said that he (b) _____. At this Hamid remarked that he (c) _____. Afzal replied that he didn't agree with him as (d) _____.

Hamid then said what he meant was that some of the newspapers were full of sensational news which had nothing to do with facts.

- (a) (i) if he reading 'The Times of India.' (iii) if he had been reading 'The Times of India.'
 (ii) if he read 'The Times of India.' (iv) if he has been reading 'Times of India'.
- (b) (i) does so every morning (iii) did so every morning
 (ii) do so every morning (iv) had done so every morning
- (c) (i) thought that newspaper reading was the curse of our time
 (ii) think that newspapers reading was the curse of our time
 (iii) thought that newspapers reading is the curse of our time
 (iv) thought that newspapers reading has been the curse of our time
- (d) (i) they bring to them the latest news and views
 (ii) they had brought to them the latest news and views
 (iii) they brought to them the latest news and views
 (iv) they were bringing to them the latest news and views

REAL NUMBERS**General Instructions:**

- Submit your work in your homework note book.
- Present your work neatly.

- 1) Use Euclid's division algorithm to find the HCF of
(a) 48 and 32 (b) 3696 and 273 (c) 867 and 265
- 2) (a) Show that the square of odd positive integer can be of the form $6q + 1$ or $6q + 3$ for some integer 'q'.
(b) Show that the cube of any positive integer is of the form $3p$ or $3p + 1$ or $3p + 2$ for any integer 'p'.
- 3) Find the HCF and LCM of 234 and 572
- 4) Write the decimal expansion of $\frac{16}{3125}$ without actual division.
- 5) Prove that $\sqrt{7} - \sqrt{5}$ is irrational.
- 6) Find the value of
(a) $\log_{\sqrt{2}} 128$ (c) $3 \log(x + 3) = \log 27$ (d) $\log_{12}^{18} + \log_{12}^8$ (e) $3^{2 - \log_3^6}$
- 7) Expand $\log 19800$
- 8) Show that $\log \frac{162}{343} + 2 \log \frac{7}{9} - \log \frac{1}{7} = \log 2$
- 9) Simplify $\log_6 216 + \left[\frac{\log 42 - \log 6}{\log 49} \right]$
- 10) Solve $\log_8 x + \log_8(x + 6) = \log_8(5x + 2)$
- 11) If $4x^2 + y^2 = 20xy$, then prove that $2 \log(2x - y) = 4 \log 2 + \log x + \log y$.

SETS

General Instructions:

- Submit your work in your homework note book.
- Present your work neatly.

- 1) Write the following set in set-builder form $\{3, 9, 27, 81, 243\}$
- 2) Write set M in the roster form if $M = \{x: x \text{ is a multiple of 8, greater than 50 and less than 100}\}$
- 3) Is set of odd numbers that have remainder zero when divided by 2 an empty set justify?
- 4) List all its subsets of the sets $A = \{x, y, z\}$
- 5) If $C = \{\text{set of all types of triangles}\}$, $D = \{\text{Isosceles triangle, equilateral triangle, Right triangle}\}$. State whether C [REDACTED]
- 6) If $A = \{x: x \in \mathbb{N}, x < 10\}$, $B = \{x: x \text{ is a prime number and } x < 10\}$, then show that $A - B \neq B - A$ with the help of Venn diagram.
- 7) If $A = \{x: 2x + 1, x \in \mathbb{N}, x \leq 5\}$, $B = \{x: x \text{ is a composite number, } x \leq 12\}$, then show that $(A \setminus B) - (A \cap B) = (A - B) \cup (B - A)$
- 8) $A = \{x: x \text{ is a perfect square, } x < 50, x \in \mathbb{N}\}$
 $B = \{x: x = 8m + 1, \text{ where } m \in \mathbb{W}, x < 50, x \in \mathbb{N}\}$.
 Find $n(A)$, $n(B)$, $n(A \cap B)$, $n(A \cup B)$, $n(A - B)$, $n(B - A)$.
- 9) $A = \{x: x \in \mathbb{N}, \text{ and } x \text{ is a multiple of } 4\}$, $B = \{x: x \in \mathbb{N}, \text{ and } x \text{ is a multiple of } 6\}$
 $C = \{x: x \in \mathbb{N}, \text{ and } x \text{ is a multiple of LCM of } 4 \text{ and } 6\}$.
 Find $A \cap B$. How can you relate the sets and C?
- 10) If $A - B = \{3, 4, 5\}$, $B - A = \{1, 8, 9\}$ and $A \cap B = \{6, 7\}$, then find $A \cup B$.

POLYNOMIALS

General Instructions:

- Submit your work in your homework note book.
- Present your work neatly.

- 1) If $P(t) = t^3 - 1$, then find $P(1)$, $P(-1)$.
- 2) Verify 1 and $\frac{3}{2}$ are the zeroes of the polynomial $2X^2 - 5x + 3$.
- 3) Draw the graph of $P(x) = x^2 - 6x + 9$, find the zeroes.
- 4) Find the zeroes of the polynomial $x^2 - 3x - 4$ graphically
- 5) Find the zeroes of the quadratic polynomial $x^2 - 2x - 3$ and verify the relationship between the zeroes and the coefficient of the polynomial.
- 6) Find the polynomial whose zeroes are (i) 3, -4 and (ii) $\sqrt{3}$, $\sqrt{3}$
- 7) Find the quadratic polynomial, the sum of whose zeroes is 8 and their product is 12. Hence, find the zeroes of the polynomial
- 8) (a) For what value of k , 3 is a zero of the polynomial $2x^2 + x + k$?
(b) For what value of k , -2 is a zero of the polynomial $3x^2 + 4x + 2k$?
- 9) Verify that 3, -1, $-\frac{1}{3}$ are zeroes of the polynomial $p(x) = 3x^3 - 5x^2 - 11x - 3$ and then verify relation between zeroes and coefficients.
- 10) (a) Find all other zeros of the polynomial, $f(x) = x^4 + x^3 - 23x^2 - 3x + 60$, if it is given that two of its zeroes are $\sqrt{3}$, $-\sqrt{3}$.
(b) If 1 and 2 are the zeroes of the polynomial find $x^4 - 4x^3 - 15x^2 + 58x - 40$, find the other zeroes if any.

STATISTICS

General Instructions:

- Submit your work in your homework note book.
- Present your work neatly.

1) Find the mean of the following frequency distribution by step-deviation method:

Class interval	0-10	10-20	20-30	30-40	40-50
Frequency	20	24	40	36	20

2) Find the mode of the following data:

Class interval	0-10	10-20	20-30	30-40	40-50	50-60	60-70
Frequency	5	8	15	20	14	8	5

3) The distribution below gives the weights of 30 students of a class. Find the Median weight of the students.

Weight (in kg)	40-45	45-50	50-55	55-60	60-65	65-70	70-75
Number of students	2	3	8	6	6	3	2

4) Write the formula of Mean, Median, Mode and explain its terms.

5) Find the Median of first 7 composite numbers.

6) Convert the following distribution into a “less than type” cumulative frequency distribution and draw its ogive. Also find the median from the ogive.

Class	0-10	10-20	20-30	30-40	40-50	50-60
Frequency	7	10	23	51	6	3

7) Find the median of $\frac{2}{3}, \frac{4}{5}, \frac{1}{2}, \frac{3}{4}, \frac{6}{5}$

8) If 14 is deleted from the data 12, 14, 15, 16, 17, 18, 19, and 20, then the median changes or not. Give reason.

9) Observe the following table and answer the questions that follow.

Class interval (x_i)	10-25	25-40	40-55	55-70
Frequency (f_i)	3	5	8	4

I) What is the size of each class interval?

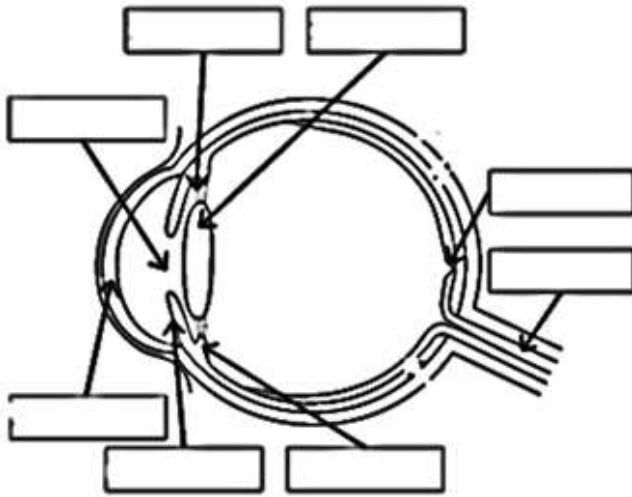
II) What is the value of $\sum f_i$?

III) Why is the midpoint of each class is called the class mark?

1. Label the diagram and write its functions:

STRUCTURE OF THE EYE

Label the diagram of the eye below, with the structures given in the table to the right.



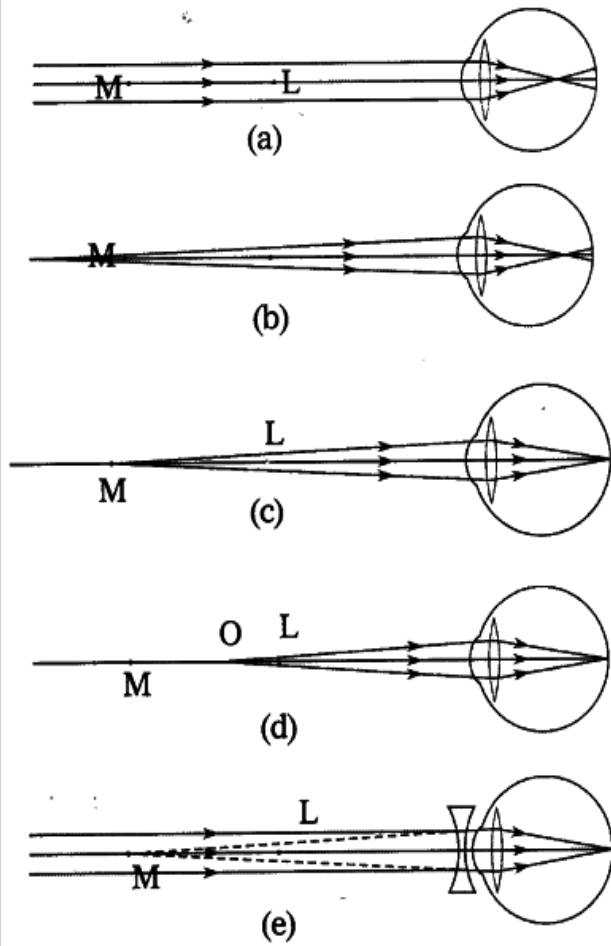
In the table, give a brief description of the function of each of the structures, you have labelled on the diagram of the eye above.

Structure in the eye	Function of the eye structure
cornea	
pupil	
retina	
optic nerve	
Aqueous Humour	
lens	
Cones	
Rods	
iris	
ciliary muscle	

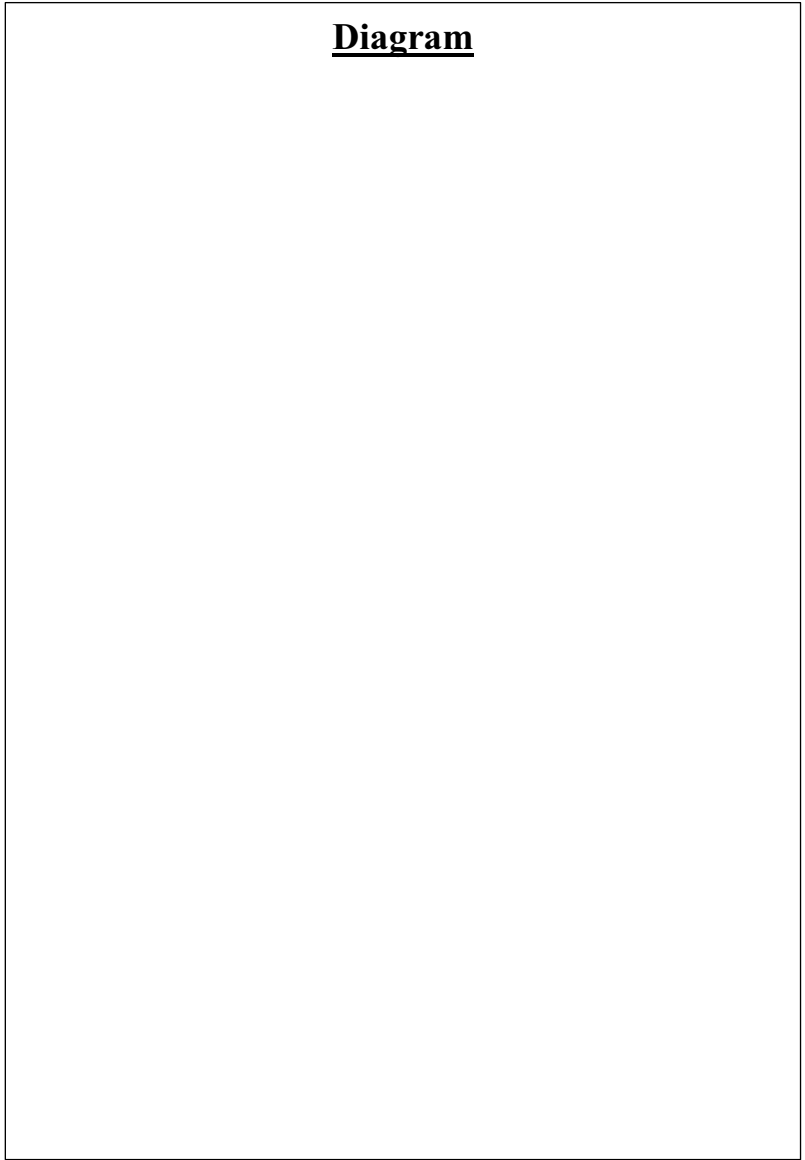
Defects of vision

3. Trace the diagram and write four points about it in the given space.

(a) Myopia

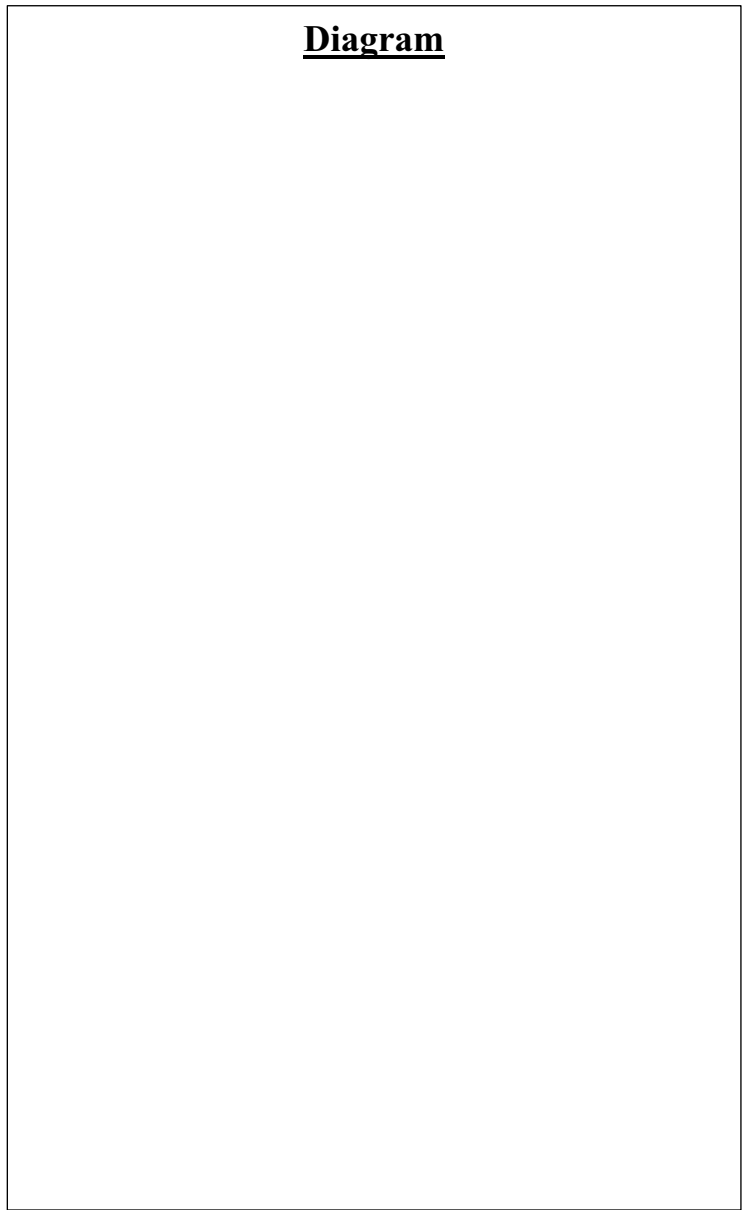
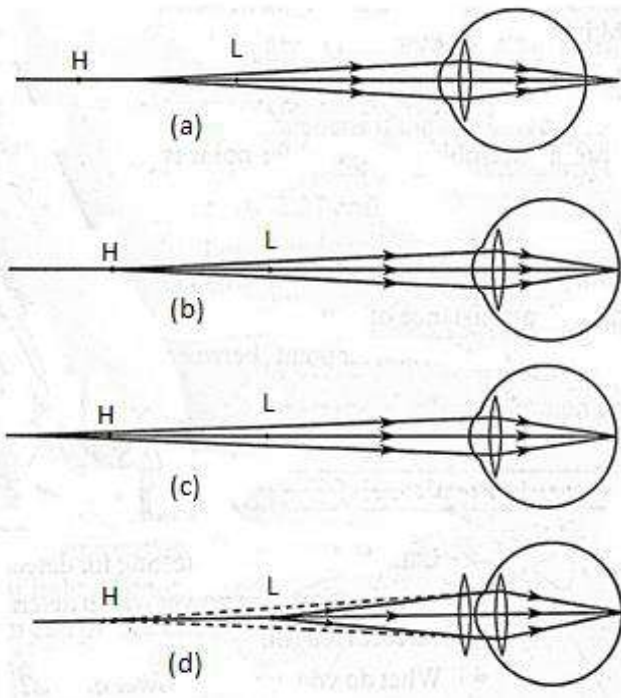


Diagram



(b) Hypermetropia:

Diagram



Formation of a rainbow with a neat diagram**Activity:**

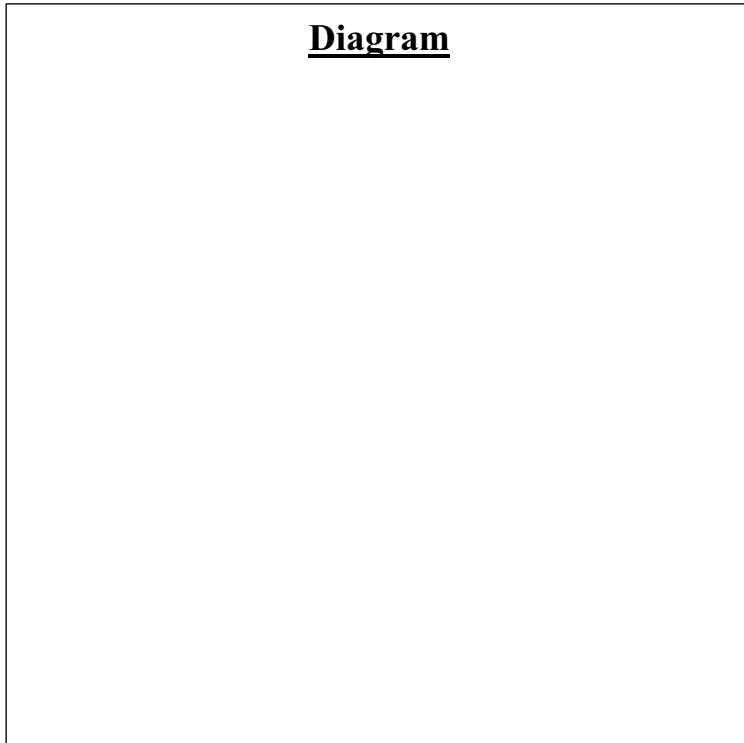
1. Aim:

2. Material required:

3. Procedure:

4. Observation:

5. Conclusion:

Diagram

Activity to show the phenomenon of scattering of light.**Activity:**

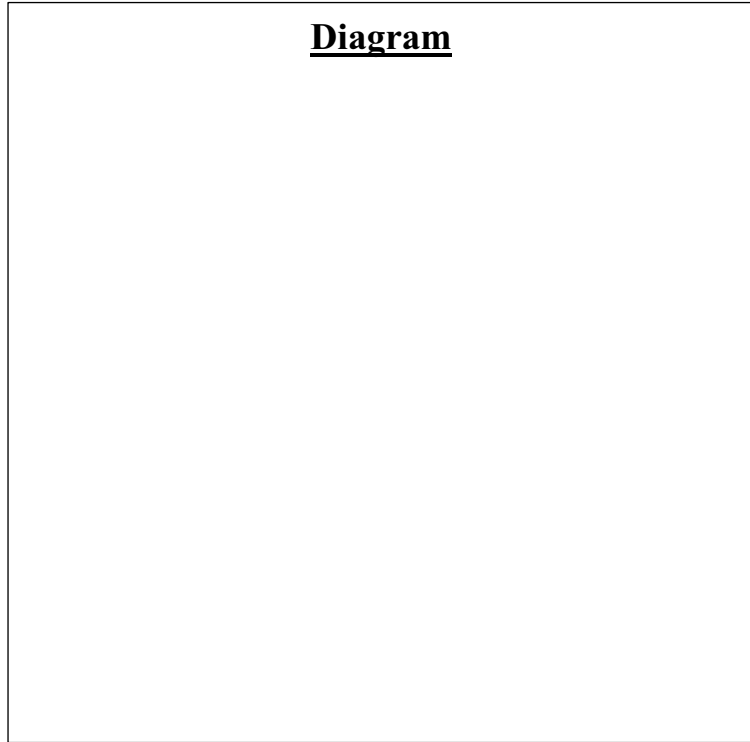
1. Aim:

2. Material required:

3. Procedure:

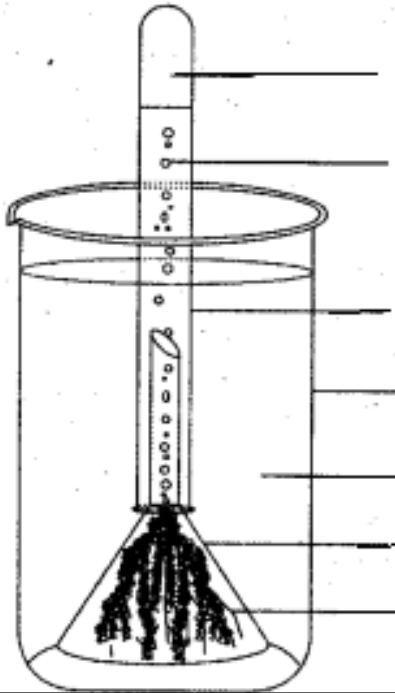
4. Observation:

5. Conclusion:

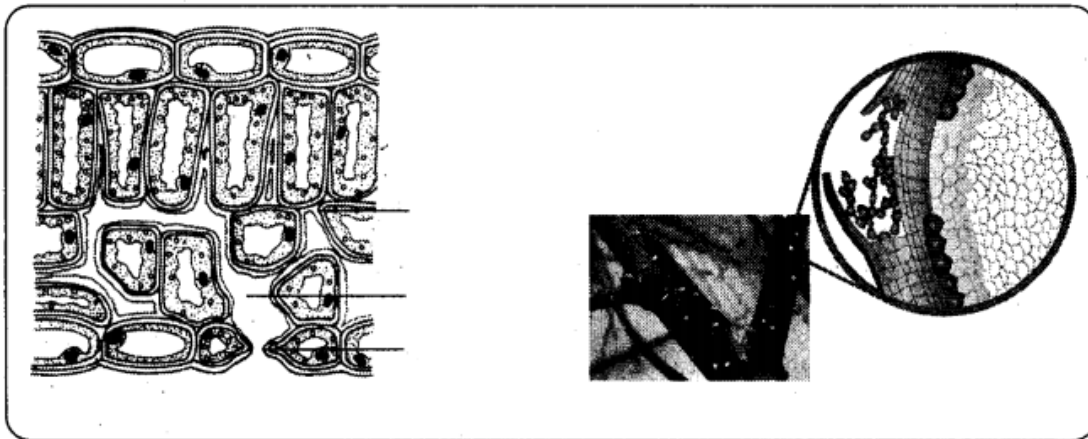
Diagram

Work sheet

I. Name the experiment and label the following diagrams:



Blank box for labeling the potometer diagram.

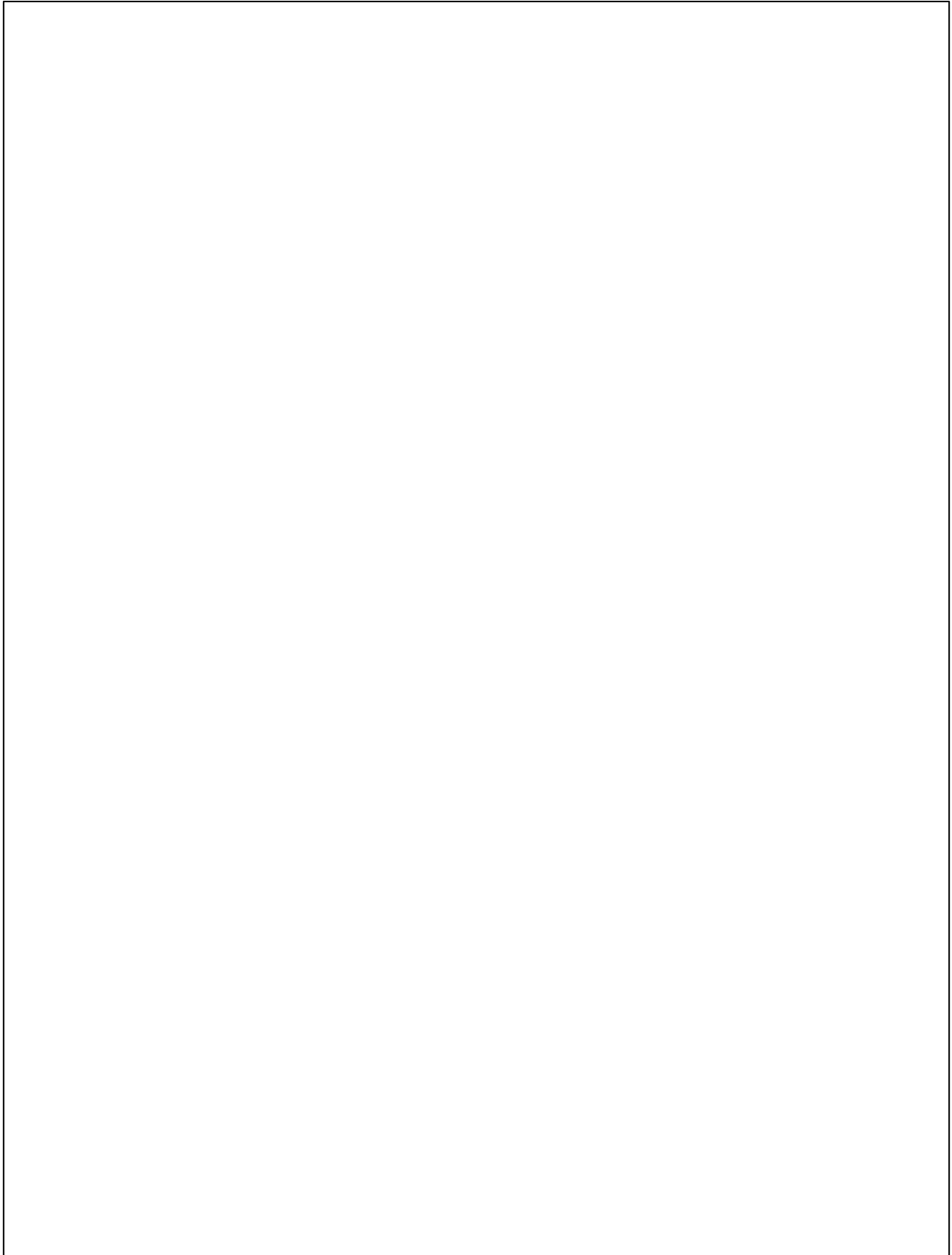


Blank box for labeling the microscopic diagrams.

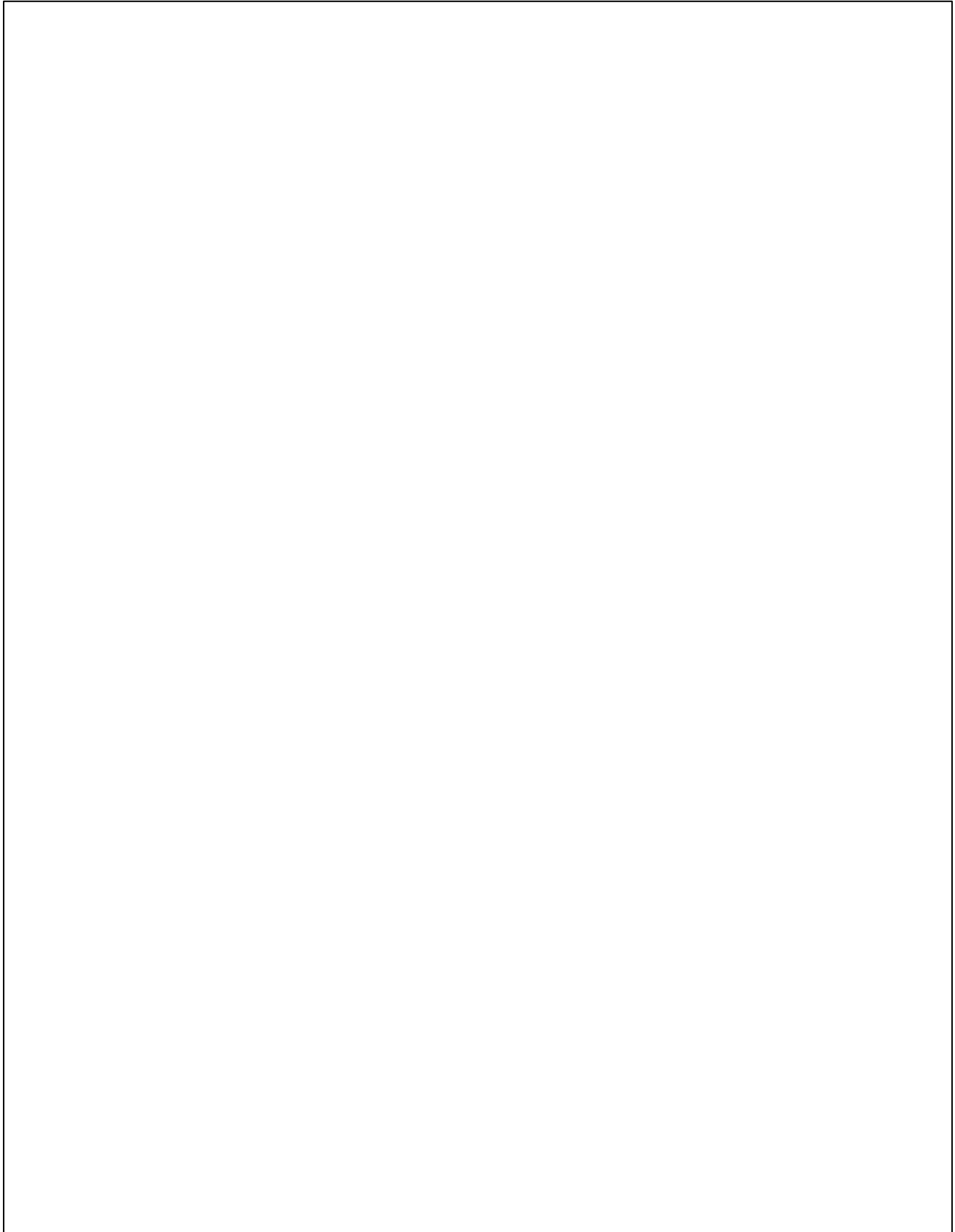
II. Collect information with pictures on Diseases caused due to malnutrition and also prepare your own balanced diet chart.

III. Draw the mind map showing different enzymes and digestive juices secreted in various parts of the human digestive system & their uses.

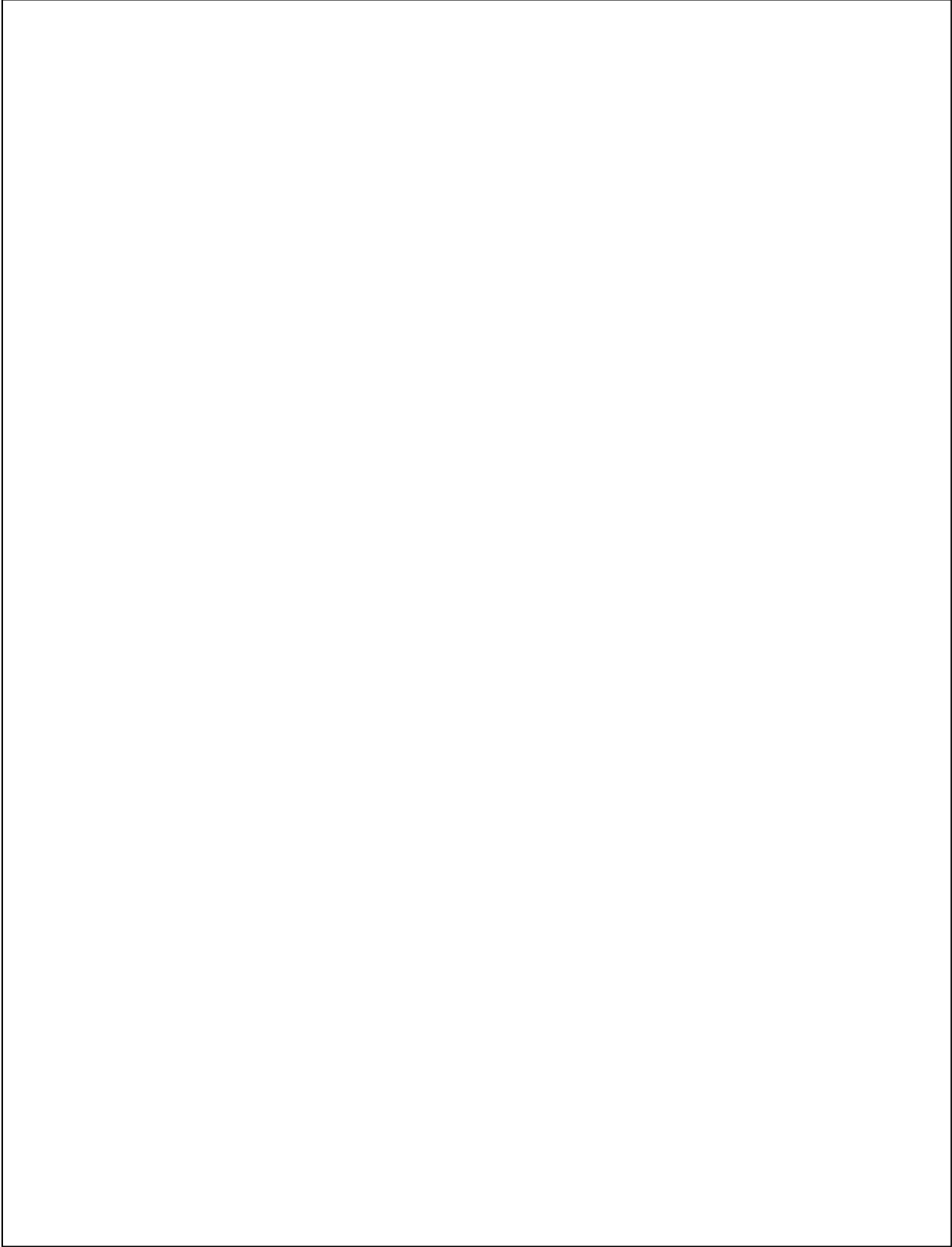
1. Practice to draw India and Telangana outline map.



2. Read LS: 14 and prepare at least 15 important 1 mark question and answer.



3. Practice LS: 3 graph analysis LS:4 map reading.



4. Mind map: F.A – 2 syllabuses (LS: 3 & 4)

