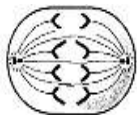


BIOLOGY- (UP&CBSE)

- 1- A cell divide by mitosis in 1 minutes if a culture tube is $1/8^{\text{th}}$ filled in 20 minutes when will the tube will be completely filled.
- 2- Given below is a diagram representing a stage during the mitotic cell division. Study the diagram and answer the following questions:



- (i) Identify the stage by giving a suitable reason.
- (ii) Is it a plant or an animal cell? Give a reason to support your answer.
- (iii) Draw a neat, labelled diagram of the stage which follows the one shown in the diagram.
- (iv) How many chromosomes will each daughter cell have after the completion of the above division?
- (v) Name the four nitrogenous bases.
- 3- How are the structures of prokaryotic and eukaryotic cells are the same and different?
- 4- How are the structures of plant and animal cells are the same and different?
- 5- Reaction given below is catalysed by oxidoreductase between two substrates A and A', complete the reaction:
A reduced + A' oxidised \rightarrow
- 6- Glycine and Alanine are different with respect to one substituent on the α -carbon. What are the other common substituent groups?
- 7- Define how enzyme reduce activation energy.
- 8- Name a stain commonly used to colour chromosomes.



Illuminating Global Education Through Indianic Values

NEW STANDARD GROUP OF INSTITUTES

Name.....

Class.....Sec.

Branch.....

Note-1- All the written work is to be done in the fair note book.

2- Prepare in all subject taught topics for test just on reopening of the school.

हिन्दी- (CBSE)

1. 'गर्मियों में पर्वतीय क्षेत्रों की यात्रा विषय पर 150 शब्दों में एक लेख लिखिए।
 2. 'राजस्थान की रजत बूँदें' पाठ को पढ़कर उससे सम्बन्धित 20 अतिलघु उत्तरीय प्रश्नोत्तर लिखिए।
 3. जन संचार माध्यम पाठ से सम्बन्धित प्रश्नों को कंठस्थ कीजिए।
- नोट- समस्त लिखित कार्य 160 पेज की कॉपी पर कराये जाएंगे।

हिन्दी- (UP BOARD)

1. 'एक देश एक चुनाव' विषय पर 150 शब्दों में निबंध लिखिए।
 2. कथा भारती के आधार पर 'बलिदान' कहानी को पढ़कर उसका सारांश अपने शब्दों में लिखिए।
 3. हिन्दी साहित्य के इतिहास व काव्यांग से सम्बन्धित प्रश्नों को कंठस्थ कीजिए।
- नोट- समस्त लिखित कार्य 160 पेज की कॉपी पर कराये जाएंगे।

ENGLISH- (CBSE)

- 1- Write a Notice for the notice board of your colony Committee House informing them about an awareness camp on Water Saving that is going to take place next Week. You are the secretary of the Colony association.
- 2- Write a report in about 150-200 words about your experience of hill station visit during Summer vacation. You are Prashansa/Prateek.
- 3- Students' natural tone of Study promptness is dropping and dependency on devices is increasing. Write an article in about 150-200 words. You are Amit/Amita.

Note- Prepare all taught topics for upcoming test.

ENGLISH- (UP BOARD)

- 1- Write a letter to your district magistrate informing him about insufficient availability of electricity in your Village in this acute summer season.
- 2- Write an essay on Students' dependency on electronic devices not one books in about 120-150 words.
- 3- Solve starting 4 exercises of translation (Hindi to English)
- 4- Prepare all taught topics for upcoming test.

MATHS-

1. Let $A = \{x : x^2 - 5x + 6 = 0, x \in \mathbb{N}\}$, $B = \{2, 4\}$ and $C = \{4, 5\}$. Write $A \times (B \cup C)$.
2. In a survey it is found that 21 people like product A, 26 people like product B and 29 like product C. If 14 people like product A and B, 15 people like product B and C, 12 people like product C and A, and 8 people like all the three products. Find
 - (i) How many people are surveyed in all?
 - (ii) How many like product C only?

3. If $A = [-3, 5)$, $B = (0, 6]$ then find
 - (i) $A - B$,
 - (ii) $A \cup B$,
 - (iii) $B - A$ and
 - (iv) $A \cap B$.

4. The minute hand of a watch is 1.5 cm long. How far does it tip move in 40 minute?

5. **Prove that-**

$$(\cos x + \cos y)^2 + (\sin x - \sin y)^2 = 4 \cos^2 (x+y)/2$$

- 6- Let $A = \{1, 2, 3, 4\}$, $B = \{1, 4, 9, 16, 25\}$ and R be a relation defined from A to B as, $R = \{(x, y) : x \in A, y \in B \text{ and } y = x^2\}$

(a) Depict this relation using arrow diagram.

(b) Find domain of R.

(c) Find range of R.

(d) Write co-domain of R.

- 7- Find the domain and Range of the function: $f(x) = (x^2 - 4)^{1/2}$.

- 8- Convert $(2/7)^\circ$ into degree measure.

- 9- Draw the graphs of the function $f(x) = 1/x$ and hence find it's range.

- 10- Convert $234^\circ 15' 30''$ into radian measure.

- 11- Draw the graph of the greatest integer function $f(x) = [x]$ and find it's range.

- 12- Prove that: $\cos 20^\circ \cdot \cos 40^\circ \cdot \cos 60^\circ \cdot \cos 80^\circ = 1/16$.

- 13- A and B are two sets such that $n(A - B) = 14 + x$, $n(B - A) = 3x$ and $n(A \cap B) = x$. Draw a Venn diagram to illustrate this information. If $n(A) = n(B)$, Find (i) the value of x (ii) $n(A \cup B)$.

- 14- If $U = \{a, e, i, o, u\}$, $A = \{a, e, i\}$, $B = \{e, o, u\}$ and $C = \{a, i, u\}$.

Then verify that: $A \cap (B - C) = (A \cap B) - (A \cap C)$.

- 15- Find the value of $\tan(22^\circ 30')$.

PHYSICS-(CBSE & UP BOARD)

- 1 - Prepare a taught syllabus.
- 2 - Complete two experiments (1 & 2) in the lab manual.
- 3 - Complete Exercise questions of lesson 2(B) in fair notes.

CHEMISTRY-

- 1- Complete two salt analysis experiments in lab manual. (Ammonium carbonate and lead acetate)
- 2- Complete NCERT Exercise questions (from 1 to 21) of lesson 2 in fair notes.

COMPUTER (CBSE)

- 1- Complete the AI activity given on Page number 158-159.
- 2- Complete the AI activity given on Page number 160-161.
- 3- Complete the AI activity given on Page number 166.
- 4- Complete the AI activity (Ice breaker Activity) given on Page number 172-173.

Note: All the activity should be complete in book.

COMPUTER SCIENCE-

- 1- Do all the conversion given in your book on page No. 45 (Que. No. 1 To 8).
- 2- Do all the Postulates of Boolean Algebra and all the Gate Diagram with their truth Table in your Fair Note Book.
- 3- Do the following questions of Boolean Algebra on page No. 71: - Que. No. 7 to 10.
- 4- Review the chapter 5 & 6 yourself.

PHYSICAL EDUCATION (CBSE)

- 1- Complete the lab manual of the following partical work-
(i) Games and Sport- (Hockey, Volley ball, Kho-Kho, Kabaddi, etc.)
- 2- Complete notes upto the P.A.I. syllabus.
- 3- All the students come with 5-5 importants questions from chapter- 1 and 2.