K.C. INTERNATIONAL SCHOOL
JALPURA, SECTOR-01, GREATER NOIDA WEST, G.B. NAGAR, 201306

SUMMER HOLIDAY ASSIGNMENT

CLASS: – 11TH – COMMERCE

<table>
<tr>
<td>1</td>
<td>English</td>
<td>
<u>Q.1- Research work. (As Per CBSE norms)</u>

(a) Research on the Egyptians civilizations –with reference to Tut’s Mummy and its discovery.
(b) Research on Khushwant singh’s life and works.
Stick the pictures with information.

<u>Q.2-Writing Skill</u>.

(a) Design a poster as an appeal for conserving water as most parts of India are facing serious problems and have been hit by drought.
(b) Cut out 4 clippings of Classified Ads under the heads.
For sale, To-let, Situation vacant, For matrimonial.

Q.3-Revise the syllabus of UT1

(NOTE: The Holiday Homework should be done in Grammar Classwork register.)
</td>
</tr>
<tr>
<td>2</td>
<td>Economics</td>
<td>
<u>Assignment 1</u>-
Make a report on nature of Indian economy and it's achievements which India has achieved in last one decade and suggest some points which can be done for the future development of our country.

<u>Assignment 2-</u>
Explain all Central problems of Indian Economy with its possible solution in different types of economics.
<u>Assignment 3-</u>
Make a project on shift and rotation of production possibility curve.

<u>Assignment 4-</u>
Make a project on properties of indifference curve.
(Do any two)

▪ <u>Project work (As per CBSE guidelines)</u>

➢ <u>Marking scheme:</u>

<table>
<tr><th>S. N</th><th>Topic</th><th>Marking scheme</th></tr>
<tr><td>1</td><td>Relevance of the topic</td><td>3</td></tr>
<tr><td>2</td><td>Knowledge Content/Research Work</td><td>6</td></tr>
</table>
</td>
</tr>
</table>

3	Presentation Technique	3
4	Viva voice	8
5	Total	20

- **Guidelines: -**

1. Students should complete only ONE project during each academic session.
2. The project should be approximately 3,500-4,000 words in length (excluding diagrams and graphs), preferably handwritten.
3. The project should be an independent and self-directed study.
4. Choose a title or topic for the project.
5. Collect research materials and data related to the topic.
6. Organize the collected materials and data.
7. Present the materials and data in a clear and structured manner.
8. Analyze the materials and data to draw relevant conclusions.
9. Present the conclusions effectively.

- **Sequence of the project: -**

1. Introduction of the topic/title.
2. Acknowledgement
3. Certificate
4. Index
5. Main content
6. Proper citation of the preferred materials in footnotes, resources section, bibliography, etc.

- **INSTRUCTIONS:**

1. Use an A4 size plain or one side ruled paper only.
2. Matter should be written on one side of the paper and Formats, flow charts etc. should be drawn on the flip side only.
3. Leave a margin of one inch on left side of the page for spiral binding.
4. Project should be neat and systematically presented.
5. Excessively colourful and adorned projects will not be accepted.

		(Note- Revise your UT syllabus)
	Accountancy	**Q.1- Prepare PPT on the following topics allotted:** **(As per CBSE norms)** * Basic Accounting Terms * Accounting Principles and Concepts Q.2-Revise all chapters covered in class. Q.3-Imagine any business unit, chose its name, prepare two sample vouchers, debit note, credit note, cash-memo, invoice and paste in A4 Sheet. Take help of textbook for the format.
4	**Business studies**	Q.1- Prepare a collage on the following topics as allotted (a) -Indian MNC's and their CEO's with their Brand name, Brand Mark, and Taglines. (b) - Non-Indian MNC's and their CEO's with their Brand name, Brand Mark, and Taglines. (c) -Popular Co-Operative societies in India with their details Q.2- Design a business -toon or write an article on any corporate/current issue or any. creative idea for business for Commerce section for school magazine. (Note: - Revision of UT - 1Syllabus)
5	**Physical education**	• **Multiple choice questions** Q.1-The aim of physical education is to improve the physique by activities (a) Political (b) Physical (c) psychological (d) Economic Q2. What is the main goal of physical education? (a) Physical development (b) Mental development (c) Social Development (d) All round development • **Given below are the questions (3to4) labelled as Assertion (A) and Reason (R). Select the most appropriate answer from the options given below:** **(a) Both (A)and (R)are true and (R) is the correct explanation of (A).** **(b) Both (A)and (R)are true, but (R) is not the correct explanation of (A).** **(c) (A) is true, but (R) is false.** **(d) (A) is false, but (R) is true.** Q3. Assertion (A): Physical education is the development of built it qualities in the child through physical. activities.

		Reason: Physical education helps achieve all round development. Q4. Assertion (A): Training of mind is not possible by keeping the body separate. Reason (R): The body is the basis, and the mind is its integral part. Q5. Write a note on the teaching career in physical education. Q6. Write a note on the medical career in physical education. Q7. Write a short note on khelo india programme. Q8. Write fact and objective of fit india programme. Q9. Write benefits and paste pictures of following Asanas - i. Tadasna ii. Padmasanan. Q10. Prepare practical record files according to prescribed syllabus. **(As per CBSE norms)** Q11. Write the importance of physical activity during the COVID-19 pandemic. (Note-Revise UT syllabus)
6	**Computer Science**	**Q1. Write following Python Programs:** • Write a Python program to print your name, class, section, all subjects. • Write a Python program to input and add, Subtract, Multiply and divide two numbers. • Write a python program to input age of 10 peoples. Calculate the average of their ages and print it. • Write a python program to find the square and cube of a user defined number. • Write a python program to find the area of circle, triangle, square and rectangle. • Write a python program to swap two variables. • Write a python program to convert Celsius to Fahrenheit. Q2. Create a Chart paper indicating the Computer System Architecture. Q3. Predict the output: Pi = 3.1419 Print (“Pi= ”, Pi) Print (“or ”,3.14, “for short”) Print (“Do you know that a ‘word’ is a word?”) Print (“Do you know that a “word” is a word?”) Print (“Do you know that a \’word\’ is a word?”) Print (“Do you know that a \”word\” is a word?”) Q4. If x=2 indicate what each of the following python statements would print. Print(“x”)

		Print('x') Print(x) Print("x+1") Print('x'+1) Print(x+1) **CBSE PRACTICAL FILE:- 07 MARKS** • Do Any Five Python Programs In Your Practical File Which You Have Conducted In Practical Lab Session. **CBSE PROJECT FILE: 08 MARKS** Prepare The Frontend Of Your Project. You Can Select Any Project But It Should Be From Your Class 11 Syllabus. Ex- pizza store management system, café management system etc.
7	Maths	Q.1-Let A, B and C be sets, then show that $A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$. Q.2-Out of 100 students; 15 passed in English, 12 passed in Mathematics, 8 in science, 6 in English and Mathematics, 7 in Mathematics and Science; 4 in English and Science; 4 in all the three. Find how many passed: (a)-in English and Mathematics but not in science (b)-in Mathematics and Science but not in English in Mathematics only (c)-in more than one subject only Q.3-Two finite sets have m and n elements, respectively. The total number of subsets of first set is 56 more than the total number of subsets of the second set. The values of m and n respectively are: (A) 7, 6 (B) 5, 1 (C) 6, 3 (D) 8, 7 Q.4-Let A and B be two sets, if $A \cap X = B \cap X = \varphi$ and A U X = B U X for some set X, prove that A =B. Q.5-Let P be the set of prime numbers and let $S = \{t \mid 2t - 1 \text{ is a prime}\}$. Prove that $S \subset P$. Q.6-If A and B are subsets of the universal set U, then show that: (i) $A \subset A \cup B$ (ii) $A \subset B \Leftrightarrow A \cup B = B$ (iii) $(A \cap B) \subset A$ Q.7-A, B and C are subsets of Universal Set U. If A = {2, 4, 6, 8, 12, 20} B = {3, 6, 9, 12, 15}, C = {5, 10, 15, 20} and U is the set of all whole numbers, draw a Venn diagram showing the relation of U, A, B and C.

Q.8- In a town of 10,000 families it was found that 40% families buy newspaper A, 20% families buy newspaper B, 10% families buy newspaper C, 5% families buy A and B, 3% buy B and C and 4% buy A and C. If 2% families buy all the three newspapers. Find:
(a) The number of families which buy newspaper A only.
(b) The number of families which buy none of A, B and C

Q.9-If X and Y are two sets such that X ∪ Y has 18 elements, X has 8 elements and Y has 15 elements; how many elements does X ∩ Y have?

Q.10- If X= { a, b, c, d } and Y = { f, b, d, g}, find: (i) X – Y (ii) Y – X (iii) X ∩ Y

Q.11-Out of 100 students; 15 passed in English, 12 passed in Mathematics, 8 in science,6 in English and Mathematics, 7 in Mathematics and Science; 4 in English and Science; 4 in all the three. Find how many passed.
(i) in English and Mathematics but not in science
(ii) in Mathematics and Science but not in English
(iii) in Mathematics only
(iv) in more than one subject only

Q.12-Let F1 be the set of parallelograms, F2 the set of rectangles, F3 the set of rhombuses, F4 the set of squares and F5 the set of trapeziums in a plane. Then F1may be equal to
(a) F2 ∩F3
(b) F3 ∩F4
(c) F2 u Fs
(d) F2 ∪ F3 ∪ F4 ∪ F1

Q.13-If X= {1, 2, 3}, if n represents any member of X, write the following sets containing all numbers represented by
(i) 4n
(ii) n + 6
(iii) n/2
(iv) n-

Q.14-Let A = {1, 2, 3}, B = {4} and C = {5}
(i) Verify that: A x (B – C) = (A x B) – (A x C)
(ii) Find (A x B) ∩ (A x C).

Q.15-Find x and y if: (i) (4x + 3, y) = (3x + 5, – 2) (ii) (x – y, x + y) = (6, 10)

Q.16-Find the domain for which the functions f (x) = 2x^2 – 1 and g (x) = 1 – 3x and check whether they are equal.

Q.17-Find the domain and range of the real function f(x) = 1/(1 – x^2).

Q.18-A relation R is defined from a set A = {2, 3, 4, 7} to a set B = { 3, 6, 9, 0} as follows R = ((x,y) ∈ R : x is relatively prime to y; x ∈ A, y ∈ B). Express R as a set of ordered pairs and determine the domain and range.
Draw the graph of the 18-function f: R → R defined by f (x) = x^3, x ∈ R
If R^3 = {(x, x) | x is a real number} is a relation, then find the domain and range of R^3.

Q.19-Redefine the function f (x) = |x − 2| + |2 + x| , – 3 ≤ x ≤ 3.

Q.20-In each of the following cases, find a and b.
(i)(2a + b, a – b) = (8, 3)
(ii) {a/4, a – 2b) = (0, 6 + b)

Q.21-If R1 = {(x, y)| y = 2x + 7, where x∈ R and -5 ≤ x ≤ 5} is a relation. Then find the domain and range of R1.

Q.22-Let f and g be real functions defined by f(x) = 2x+ 1 and g(x) = 4x – 7.
(i) For what real numbers x, f(x) = g(x)?
(ii) For what real numbers x, f (x) < g(x)?

Q.23-The ordered pair (5, 2) belongs to the relation R ={(x, y): y = x – 5, x, y∈Z}

(Note- Revise UT syllabus)

MATHS CBSE ACTIVITY FILE:

Objective

To plot the graph of $\sin x$, $\sin 2x$, $2 \sin x$ and $\sin \frac{x}{2}$ on the same coordinate axes.

Material Required

- Drawing board, white paper sheet, board pins
- Scale, pencil, eraser, coloured pen

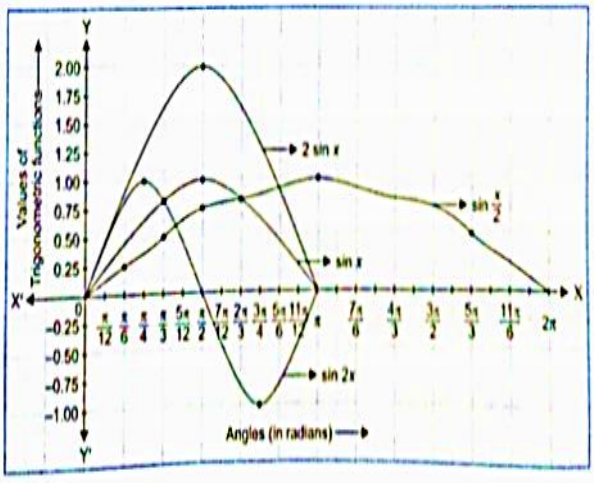
Method of Construction

1. Take a drawing board and fix the white paper sheet on it with board pins.
2. Draw two lines X'OX and YOY' perpendicular to each other and intersecting at O. The line X'OX is x-axis and YOY' is y-axis.
3. Graduate the two axes as shown in figure.
4. Prepare a table of ordered pairs $(x, \sin x)$, $(x, \sin 2x)$, $(x, 2 \sin x)$ and $\left(x, \sin \frac{x}{2}\right)$, for different values of x at an interval of $\frac{\pi}{12} = 15°$, as shown in the following table.

T-ratios	0	$\frac{\pi}{12}$	$\frac{\pi}{6}$	$\frac{\pi}{4}$	$\frac{\pi}{3}$	$\frac{5\pi}{12}$	$\frac{\pi}{2}$	$\frac{7\pi}{12}$	$\frac{2\pi}{3}$	$\frac{9\pi}{12}$	$\frac{5\pi}{6}$	$\frac{11\pi}{12}$	π
$\sin x$	0	0.26	0.50	0.71	0.86	0.97	1.00	0.97	0.86	0.71	0.50	0.26	0
$\sin 2x$	0	0.50	0.86	1.00	0.86	0.50	0	-0.5	-0.86	-1.0	-0.86	-0.50	0
$2\sin x$	0	0.52	1.00	1.42	1.72	1.94	2.00	1.94	1.72	1.42	1.00	0.52	0
$\sin \frac{x}{2}$	0	0.13	0.26	0.38	0.50	0.61	0.71	0.79	0.86	0.92	0.97	0.99	1.00

Demonstration

1. Plot the ordered pairs of the points $(x, \sin x)$, $(x, \sin 2x)$, $\left(x, \sin \frac{x}{2}\right)$ and $(x, 2 \sin x)$ on the following same coordinate axes and join these points by free hand curves in different colours.



Objective

To represent set theoretic operations using Venn-diagram.

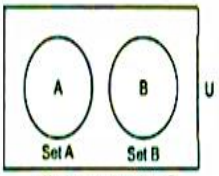
Material Required

- A drawing board
- A white paper sheet
- Compass, pencil, scissors, board pins, etc

Method of Construction and Demonstration

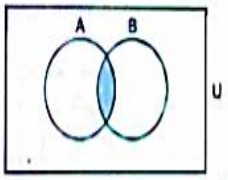
1. Take a drawing board and fix the white paper sheet on it with the help of board pins.
2. In venn-diagrams universal set U is represented by a rectangle. Draw a rectangle on the white paper sheet and write on left or right side as U. See figure (i).
3. In Venn-diagram we represent every set A OR set B with the help of a circle as shown in figure (ii).

(i) Universal set

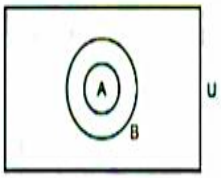


(ii) Set A OR Set B

4. In two given sets A and B have some common elements, then in Venn-diagram, they are shown by two intersecting circles with common space for common elements. See figure (iii).
5. **Sub-set and its representation by Venn-diagram:** Set A is called subset of set B if all the elements of set A are present in set B. It is denoted as $A \subset B$. In Venn-diagram, circle for set A will be completely inside the circle for set B. See figure (iv).

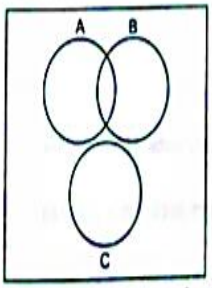


(iii) Common space for common element

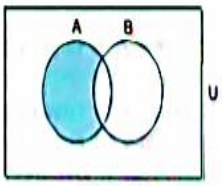


(iv) $A \subset B$

6. Since every set in consideration is a subset of universal set, so all such circles of such sets are shown inside the rectangle i.e., U. See figure (v).
7. **(A – B) and its representation by Venn-diagram:** (A – B) is a set whose elements belong to set A but not to set B. It is denoted by (A – B) and represented in Venn-diagram as shown in figure (vi). Here shaded region is (A – B).



(v) Subsets of a universal set



(vi) A – B

(B – A) and its representation by Venn-diagram: (B – A) is set whose elements belong to set B but not to set A. It is denoted as (A – B). (See figure (vii)) Here shaded region is (B – A).

8. **Complement of set A and its representation by Venn-diagram:** Complement of set A is a set whose elements belong to universal set U but not to set A. It is denoted as A'. A' = (U – A). It is represented in Venn-diagram as shown in figure (viii). Here shaded region is A'.

REVISION OF UT-1/PT-1 SYLLABUS (2024-25)

1	**English**	(1) The portrait of lady (2) Photograph (3) Grammar (4) Paragraph writing (5) Letter writing
2	**Economics**	• **(Microeconomics)** (Unit-4 and 5) Introduction of microeconomics, Consumer's equilibrium • **(Statistics for Economics)** (Unit-1 and 2) Introduction of statistics, collection of data
3	**Accountancy**	Chapter 1: Introduction to Accounting. Chapter 2: Basic accounting terms Chapter 3: Theory Base of Accounting. Chapter 4: System of Accounting: cash basis and accrual basis Chapter 5: Accounting Equations
4	**Business studies**	**(PART-A)** Chapter 1; Nature and Purpose of Business Chapter 2; Forms of Business organization Chapter 3; Public Private and Global enterprises
5	**Physical education**	Unit I: Changing Trends & Career in Physical Education. Unit II: Olympic Value Education
6	**Computer Science**	Chapter - 1 Basics of Computer Organization Chapter - 6 Getting Started with Python Chapter - 7 Basics of Python Programming Chapter - 8 Data Types
7	**Maths**	Chapter 1- Set theory. Chapter 2- Relation and function

NOTE: - School will re-open on 1st – July- 2024