

Mahaveer Public School

Class : XII

English Core

Q.1: Prepare a ppt. for Ministry Of Health And Family Welfare (GOVT. INDIA) on the topic “TOGETHER WE WILL FIGHT COVID-19”.

Q. 2: Write a speech for your morning assembly on the topic ‘ Significance of language/ Mother tongue in our life’. (200- 250 words)

VALUE POINTS: • LANGUAGE EMPOWERS COUNTRYMEN, BINDS TOGETHER. •
BETTER UNDERSTANDING OF THE SUBJECT- MATTER.

Biology

(A) Draw a neat and labelled diagram of the following in your note book –

(i) T.S. of young anther showing four microsporangia and detailed structure of one microsporangium.

(ii) L.S. of anatropous ovule.

(iii) Development of embryo sac (female gametophyte).

(iv) Stages of development of dicotyledonous embryo.

(v) Detailed structure of seminiferous tubule.

(vi) Sertoli cell with developing germ cells.

(vii) Structure of Graffin follicle.

(viii) Correlation of menstrual cycle and ovarian cycle with hormonal control.

(ix) Structure of blastocyst in human foetus within the uterus.

(x) A section of human ovary.

(xi) Structure of human sperm.

(xii) Life cycle of malarial parasite.

(xiii) Replication of retrovirus (HIV).

(xiv) Draw the flow chart of spermatogenesis and oogenesis and below the flow chart write the comparison between these two processes.

(B) Make an Investigatory Project Report on any topic of your syllabus.

Project report should consist of the following –

(1) Title of the project

(2) Certificate

(3) Index

(4) Introduction

(5) Detailed report of the project with pictures

(6) Bibliography

Physics

UNIT-1. ELECTROSTATICS: Revise all the theory part, make notes from NCERT or from any other reference book. Solve all the numericals from NCERT book(solved and unsolved) and all worksheets given in online classes.
Solve all the questions from previous years CBSE papers (from electrostatics).

UNIT-2. CURRENT ELECTRICITY: Revise all the theory topics, make notes from NCERT or from any other reference book. Solve all the numericals from NCERT book (solved and unsolved) and all worksheets given in online classes.
Solve all the questions from previous question papers (CBSE) related to current electricity.

Chemistry

Q1.All NCERT Questions(Intext & Exercise) for the following chapters.

- a. Solutions
- b. Coordination Compounds
- c. P-block Elements

Q2.Any one investigatory project from lab manual.

Mathematics

For Mathematics Home-work open this Link :

<https://drive.google.com/file/d/1pcD5VZUJRDJ4fejVaeve-Liw6Fuifckr/view?usp=sharing>

Accountancy

I Chapter 2- Accounting for Partnership Firms- Fundamentals

Q Do additional questions from Question no. 79 to Question no. 113.

Q Do all the missing Figure questions.

II Chapter 3- Change in the profit sharing ratio among the existing partners

Q Do additional questions from Question no. 45 to Question no. 63

Q Do all the missing Figure questions.

III Chapter4- Admission of a Partner

Q Do additional questions from Question no. 91 to Question no. 150.

Q Do all the missing Figure questions.

IV Make the first part of comprehensive project as per the guidelines provided.

V Do Worksheet no. 10,11 and 12 of chapters 2,3 and 4

Business Studies

Q1. Any one topic to be taken:-

- 1. Child labor, Women Empowerment , Packaging.(chapter no.3)**
- 2. Scientific principles of management, Scientific techniques. (chapter no.2)**
- 3. Launching of a new product/service. (chapter no.11)**

Important guidelines to be followed:-

- a. Project must be handwritten.**
- b. Only one topic from the above has to be taken.**
- c. Instead of the physical visit to an industry or a factory ...VIRTUAL online visit of the industry to be done (through Discovery channel or YouTube channel). But the industry visit according to the topic is mandatory.**
- d. Pictures related to the topics must be properly presented in the project.**
- e. Sequence of the topics must be strictly adhered.**

Rest detailed guidance will be given during the online scheduled classes by the concerned faculty.

Text Book Question

Q1 Policy formulation is the function of:-

- a. Top level**
- b. Middle level**
- c. Operational level**
- d. None of the above**

Q2 Coordination is:-

- a. Function of planning**
- b. Synchronization of activities**
- c. Objective of management**
- d. All of the above**

Q3 Principles of management are not :-

- a. Universal**
- b. Absolute**
- c. Flexible**
- d. Behavioral**

Q4 How are the principles of management formed:-

- a. In laboratory**
- b. By experiences of managers**
- c. By experiences of customers**
- d. By propagation of social scientists**

Q5 Which of the following best indicates the importance of business environment?

- a. Identification
- b. Coping with rapid changes
- c. Improvement in performance
- d. All of them

Q6. "A business needs to add to its prospects in long run." Which organizational objective is highlighted in the statement? Mention two objectives under this category.

Q7. "In an organization the objective of marketing department is to increase sales by 10% by offering discounts. However, the finance department is reluctant to offer discount as it means loss of revenue." One of the importance of coordination helps to resolve this conflict. Identify and explain it.

Q8. TMC Ltd. has a target to produce 10000 shirts per month at a cost of rupees 150 per shirt. The production manager could achieve this target at a cost of rupees 160 per shirt. Do you think the production manager is effective? Give valid reason.

Q9. Identify the principle of mgmt in the following :-

- a. There should be only one and only one boss for every individual employee.
- b. Employees should not be moved from their jobs
- c. Employees should be treated with justice and kindness.

Q10. Amana wants to buy a gold ring. As an aware consumer how can she be sure about the quality of gold ring she is going to buy?

Q11. Which principle is being overlooked by Mohan, a manager in the following :-

- a. He expects his subordinates to adapt to new environments and working conditions without giving them time to settle down.

- b. He often speaks to people at all levels , passing on instructions regarding his department and also other departments.**
- c. He expects his colleagues to get work out of subordinated without giving them any powers.**

- Q12. An employee has the objective of maximizing his salary. But the organizational objective is to maximize output at competitive cost. Due to this, there was some dispute on this for a while. Eventually , the organizational interest was put on priority. Identify and explain the principle related to the above situation.**
- Q13. Hema is one of the most successful manager of the company. She uses her creativity and initiative in handling challenging situations at work. The well defined knowledge gained by her during her student days from a renowned management institute, helped her a lot in handling such business situations. Explain any three features of the nature of management discussed above?**
- Q14. Give the meaning of management and explain how it creates a dynamic organization and helps in development of society.**
- Q15. What is meant by coordination? State its features in detail.**
- Q16. A recent rate cut in the interest on loans announced by the Banks encouraged Amit, a science student applied for the loan from SBI Bank to experiment and develop cars to be powered by the fuel produced**

Economics

Q1 Fill in the blanks-

1. _____ means the ability of environment to absorb degradation.
2. _____ refers to the phenomenon of reductions in the amount of ozone in the stratosphere.
3. Population explosion, affluent consumption and production have placed a huge stress on the _____.
4. Shifting cultivation, improper crop rotation, forest fires and over grazing cause _____.
5. Solar energy and wind energy are _____ sources of energy.
6. _____ is proneness to fall ill.
7. _____ health care includes identification, prevention and control of diseases.
8. The workers who own and operate an enterprise to earn their livelihood are known as _____.
9. Labour force = _____ + unemployed persons who are willing and available for work.
10. Hired workers may be _____ workers or casual workers.
11. NABARD was set up in _____ as an apex body of agricultural credit.
12. _____ farming is a whole system of farming that restores, maintains and enhances the ecological balance.
13. Human development is based on the idea that _____ and _____ are integral to human well being.
14. _____ capital is separable from its principal.
15. Pradhan Mantri Jan Dhan Yojna was initiated in _____.
16. _____ organisation collects statistics on poverty in India.
17. Introduction of _____ tariff policy by the Britishers led to the decay of Indian handicraft industries.
18. The overall literacy rate during British rule was less than _____.
19. The first census data was collected in _____ during the British rule.
20. The British introduced the railways in India in _____.

- Q2. What was the two fold motive behind the systematic de-industrialization affected by the British in pre independence India?
- Q3. Explain how was Zamindari system an important cause of agricultural stagnation during colonial period.
- Q4. Suggest four strategies to achieve sustainable development in India.
- Q5. What is the state of rural infrastructure in India?
- Q6. Aarti, a 12 years old girl works as a domestic help for Mrs. Sharma. Mrs Sharma decided to give her Rs. 2000 per month and two square meal. Is her decision justified?
- Q7. Why are regular salaried employees more in urban areas than in rural areas?
- Q8. Explain the following types of unemployment-
- A. Seasonal unemployment
 - B. Industrial unemployment
 - C. Frictional unemployment
- Q9. Explain the terms 'green revolution', 'white revolution' and 'golden revolution'.
- Q10. Rohit visited his uncle in Solan during summer vacation. He noticed that his uncle supplied plums at the rate of Rs 6 per kg from his orchard. He was surprised to find that plums are usually sold at Rs 35-40 per kg in his city. He realised that the long chain of middlemen leads to high profit margin. What do you suggest to solve this inefficiency?
- Q11. What are the main problems of human capital formation in India?
- Q12. Bring out the need for on the job training for a person.
- Q13. Discuss measures to remove poverty by economic growth and reduction in income inequality.

Computer Science

Practical Record File (Assignment)

1. **Create an Employee Table with the fields** Empno, Empname, Desig, Dept, Age and lacc. Enter five records into the table

Empno	Empname	Desig	Dept	Age	Place
1221	Sidharth	Officer	Accounts	45	Salem
1222	Naveen	Manager	Admin	32	Erode
1223	Ramesh	Clerk	Accounts	33	Ambathur
1224	Abinaya	Manager	Admin	28	Anna Nagar
1225	Rahul	Officer	Accounts	31	Anna Nagar

- Add two more records to the table.
 - Modify the table structure by adding one more field namely date of joining.
 - Check for Null value in doj of any record.
 - List the employees who joined after 2018/01/01.
2. **Create Student table with following fields and enter data as given in the table below:**

Field	Type	Size
Reg_No	char	5
Sname	varchar	15
Age	int	2
Dept	varchar	10
Class	char	3

Data to be entered

Reg_No	Sname	Age	Dept	Class
M1001	Harish	19	ME	ME1
M1002	Akash	20	ME	ME2
C1001	Sneha	20	CSE	CS1
C1002	Lithya	19	CSE	CS2
E1001	Ravi	20	ECE	EC1
E1002	Leena	21	EEE	EE1
E1003	Rose	20	ECE	EC2

Then, query the followings:

- i. List the students whose department is "CSE".
 - ii. List all the students of age 20 and more in ME department.
 - iii. List the students department wise.
 - iv. Modify the class M2 to M1. Check for the uniqueness of Register no
3. Consider the following tables DRESS and MATERIAL. Write SQL commands for the statements (i) to (iv) and give outputs for SQL queries (v) to (viii).

Table :Dress

DCODE	DESCRIPTION	PRICE	MCODE	LAUNCHDATE
10001	FORMAL SHIRT	1250	M001	12-JAN-08
10020	FROCK	750	M004	09-SEP-07
10012	INFORMAL SHIRT	1450	M002	06-JUN-08
10019	EVENING GOWN	850	M003	06-JUN-08
10090	TULIP SKIRT	850	M002	31-MAR-07
10023	PENCIL SKIRT	1250	M003	19-DEC-08
10089	SLACKS	850	M003	20-OCT-08
10007	FORMAL PANT	1450	M001	09-MAR-08
10009	INFORMAL PANT	1400	M002	20-OCT-08
10024	BABY TOP	650	M003	07-APR-08

Table: Material

MCODE	TYPE
M001	TERELENE
M002	COTTON
M004	POLYESTER
M003	SILK

- (i) To display DCODE and DESCRIPTION of an each dress in ascending order of DCODE.
- (ii) To display the details of all the dresses which have LAUNCHDATE in between 05-DEC-07 and 20-JUN-08 (inclusive of both the dates).
- (iii) To display the average PRICE of all the dresses which are made up of material with MCODE as M003.
- (vi) To display material wise highest and lowest price of dresses from DRESS table.
(Display MCODE of each dress along with highest and lowest price)
- (v) SELECT SUM (PRICE) FROM DRESS WHERE MCODE='M001';
- (vi) SELECT DESCRIPTION, TYPE FROM DRESS, MATERIAL WHERE DRESS.DCODE=MATERIAL.MCODE AND DRESS.PRICE>=1250;
- (vii) SELECT MAX(MCODE) FROM MATERIAL;
- (viii) SELECT COUNT(DISTINCT PRICE) FROM DRESS

Q-4 Write SQL queries for (i) to (iv) and find outputs for SQL queries (v) to(viii), which are based on the tables.

Trainer

TID	TNAME	CITY	HIREDATE
101	SUNAINA	MUMBAI	1998-10-15
102	ANAMIKA	DELHI	1994-12-24
103	DEEPTI	CHANDIGARG	2001-12-21
104	MEENAKSHI	DELHI	2002-12-25
105	RICHA	MUMBAI	1996-01-12
106	MANIPRABHA	CHENNAI	2001-12-12

Course

CID	CNAME	FEES	STARTDATE
C201	AGDCA	12000	2018-07-02
C202	ADCA	15000	2018-07-15
C203	DCA	10000	2018-10-01
C204	DDTP	9000	2018-09-15
C205	DHN	20000	2018-08-01
C206	O LEVEL	18000	2018-07-25

- (i) Display the Trainer Name, City & Salary in descending order of their Hiredate.
- (ii) To display the TNAME and CITY of Trainer who joined the Institute in the month of December 2001.
- (iii) To display TNAME, HIREDATE, CNAME, STARTDATE from tables TRAINER and COURSE of all those courses whose FEES is less than or equal to 10000.
- (iv) To display number of Trainers from each city.
- (v) `SELECT TID, TNAME, FROM TRAINER WHERE CITY NOT IN('DELHI', 'MUMBAI');`
- (vi) `SELECT DISTINCT TID FROM COURSE;`
- (vii) `SELECT TID, COUNT(*), MIN(FEES) FROM COURSE GROUP BY TID HAVING COUNT(*)>1;`
- (viii) `SELECT COUNT(*), SUM(FEES) FROM COURSE WHERE STARTDATE< '2018-09-15';`

Information Technology

Worksheet-1(MySQL)

1. Define the followings:

Database	DBMS	RDBMS	Table	Record
Field	Primary Key	Alternate Key	Foreign Key	Candidate Key
Cardinality	Degree	DDL Commands	DML Commands	Constraints
Operator	Data Type	NULL Value	Literal	

2. Differentiate the followings:

- a. Record and Field
- b. Primary Key and Foreign Key
- c. NULL , NOT NULL and IS NULL
- d. Char and Varchar Data Type
- e. DDL and DML (Full form is not a part of difference)
- f. DROP and Delete
- g. Update and Alter
- h. % and _ (underscore) in context of like operator

3. Answer the following questions:

- a. If a user want to change the value of a column which command is used and what is the category of this command.
- b. If a user wants to add a column then which command is used.
- c. What will you do if you want to identify a record uniquely?
- d. Why a foreign key constraint is applied?
- e. How can you change the width of a column after creating table?
- f. Describe various categories of SQL commands in MySQL.
- g. When you delete all records of a table then it deletes the structure of table also.

4. Practical Questions in MySQL based on one table for practical record file

TABLE:ITEM

ItemCode	ItemName	ItemPrice	Quantity	Dateofmanufacture	Dateofexpiry	Damage_Qty
1001	LIRIL	27	100	12-DEC-2008	12-DEC-2010	24
1002	JO	22	150	15-JAN-2009	15-JAN-2011	12
1003	LUX	24	135	18-NOV-2008	18-NOV-2011	0
1004	PEARS	32	123	20-MAR-2009	20-MAR-2010	6
1005	CINTHOL	18	67	20-MAR-2008	20-MAR-2010	0
1006	SANTOOR	14	200	18-JUL-2009	18-JUL-2012	6
1007	DETTOL	20	89	10-AUG-2009	10-AUG-2012	3

Answer the following questions based on above table.

1. Write the SQL command to create above table with the following constraints.

Itemcode PrimaryKey

ItemPrice >10

2. Write the SQL command to add the first record of this table.
3. Write the SQL command to delete those records where items are expired.
4. Write the SQL command to display all those records where itemprice is between 100 to 160
5. Write the SQL command to display those records where expiry period is more than or equal to two years.
6. Write the SQL command to display those records, which has been manufactured in the year 2008.
7. Write the SQL command to change the damage_qty to 0 for itemcode 1001.
8. Write the SQL command to display those records where item price is more than 25 and damage_qty is more than zero.
9. Write the SQL command to display those records where itemname starts with letter "L".
10. What is the output of the following SQL command?
SELECT ITEMNAME, ITEMPRICE FROM ITEM WHERE QUANTITY>100 ORDER BY ITEMNAME
DESC.
11. Write the SQL query to display those records where damaged quantity is less than 10 in the descending order of damage_qty and then quantity.
12. Write the SQL query to display maximum, minimum, average and total damaged quantity.

13. Write the SQL query to display the count of all damaged items where damaged items are more than 10.
14. Write the SQL query to display the item_name having maximum damaged quantity.
15. Write the SQL query to display those records which has been manufactured in between 01- November-2008 to 30-June-2009.

Answer the followings based on networking unit.

1. Define the followings

- a. Networking
- b. Protocol
- c. Topology
- d. Communication Channel
- e. Modem
- f. Hub
- g. Switch
- h. Repeater
- i. Router
- j. Gateway
- k. Web
- l. Email
- m. Chat
- n. VoIP
- o. Website
- p. Webpage
- q. web server

2. Differentiate the followings:

- a. Star and Bus Topology
- b. WAN and LAN
- c. Guided Medium and Unguided Medium
- d. Static and Dynamic Web Page

3. Answer the following questions:

- a. Why switch is call intelligent hub?
- b. Why LAN is faster than WAN?
- c. State any three reasons that enable us to create network in an organization.
- d. Download, install and configure browser.
- e. Why web hosting is required? Write the steps for hosting a web site.
- f. Draw a network of 5 computers in star topology.

Physical Education

Make a Record file:

1. Motor fitness tests administration for all items.
2. Procedure for Asana, Benefit and Contraindication for any five Asanas.
3. Procedure for administration Senior Citizen Fitness Test for 5 elderly family members.
4. Any one game of your choice out of the list-Basketball, Volleyball

-History of the game

-Labelled diagram of field and equipment

-Rules and regulation of the game

-Terminologies of the game

-Fundamental skill of the game

-Personalities

Applied Arts

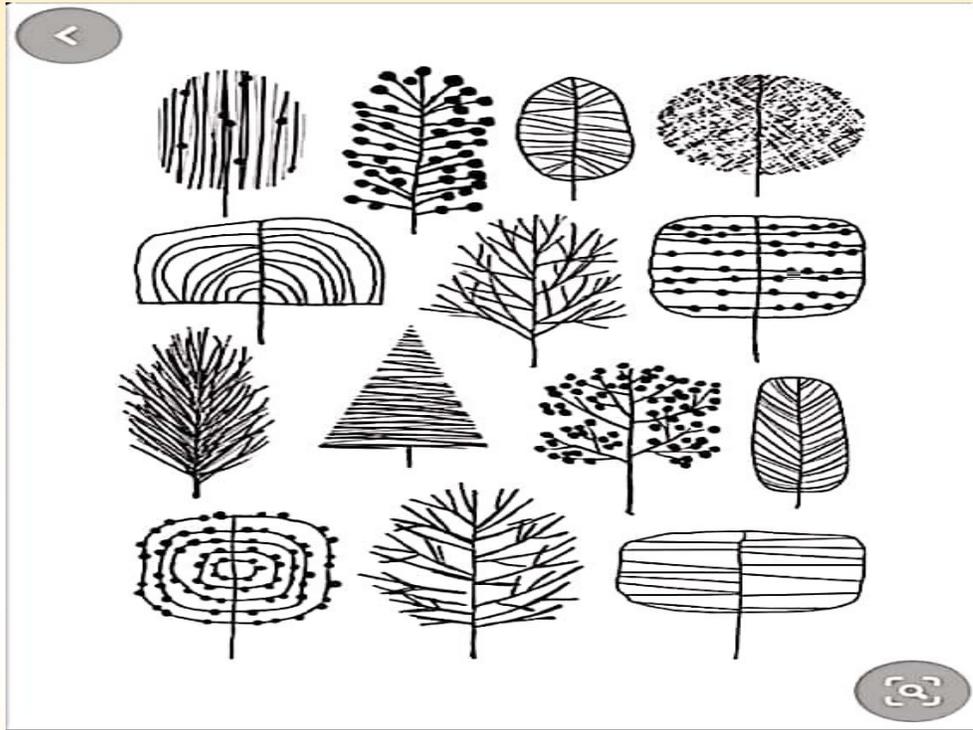
- Revise Worksheets 1,2 and 3
- Open this link to follow Linear Techniques :
https://drive.google.com/file/d/1vSvJ04gGs6qwdlg8IUhjPSyMvr5T_6dL/view?usp=sharing
- Topic for the posters(Half Imperial Size)
 - A. Social Issues: Child labour ,Domestic Violence ,Fake Media/News**
 - B. International/ National: Terrorism, Population, Global Warming**
 - C. Travel and Tourism**
 - D. Commercial Product**
- Topic for illustrations(one fourth size)
 - A. Linear Techniques in Black and White
 - B. Cultural: Dance, Theatre , Art , Music.



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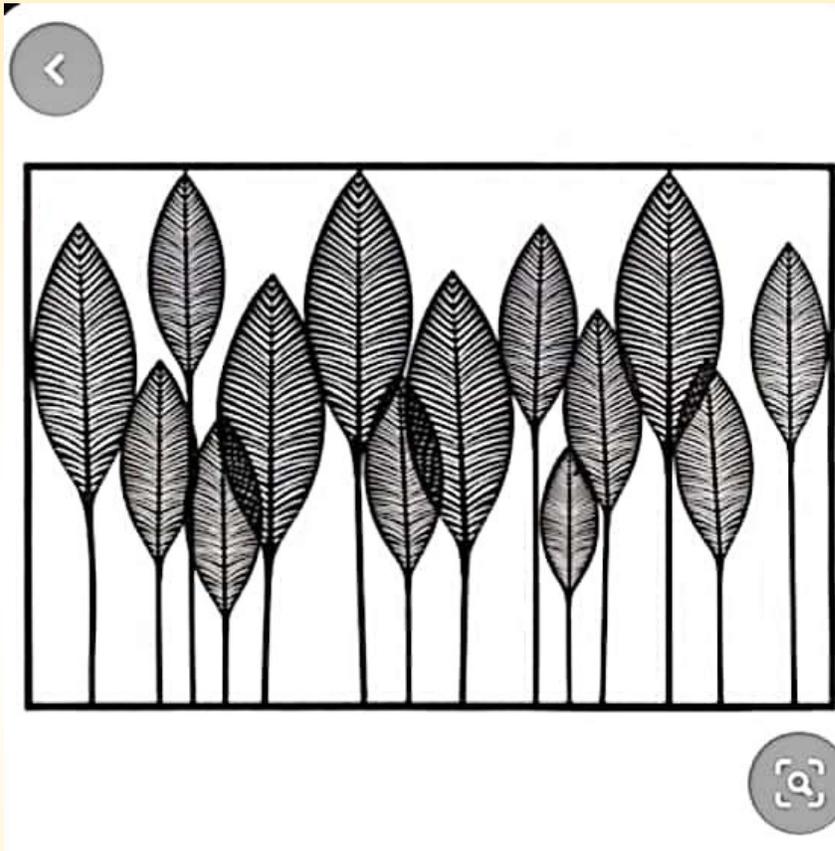
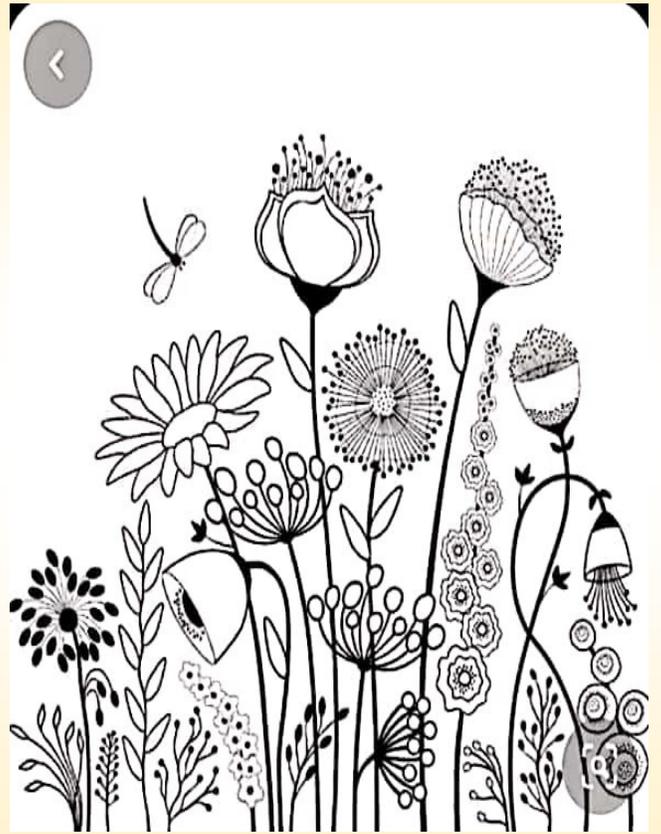
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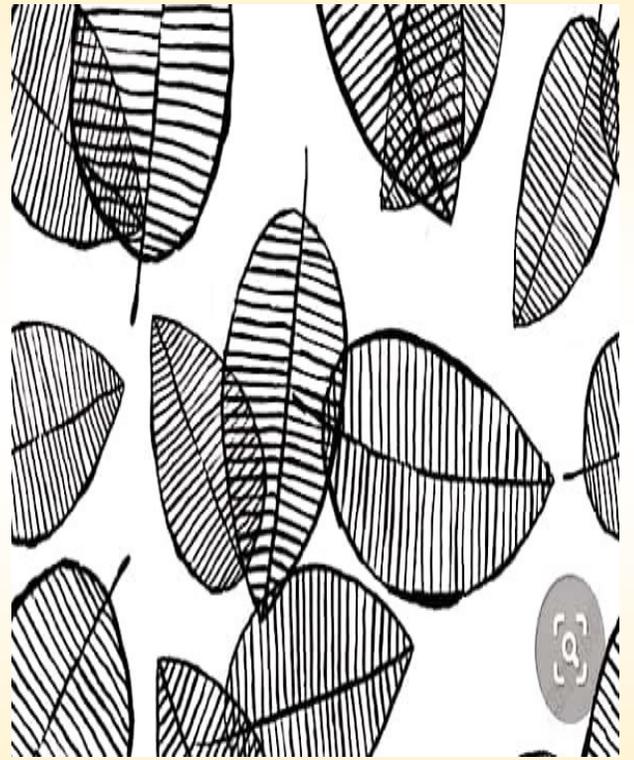


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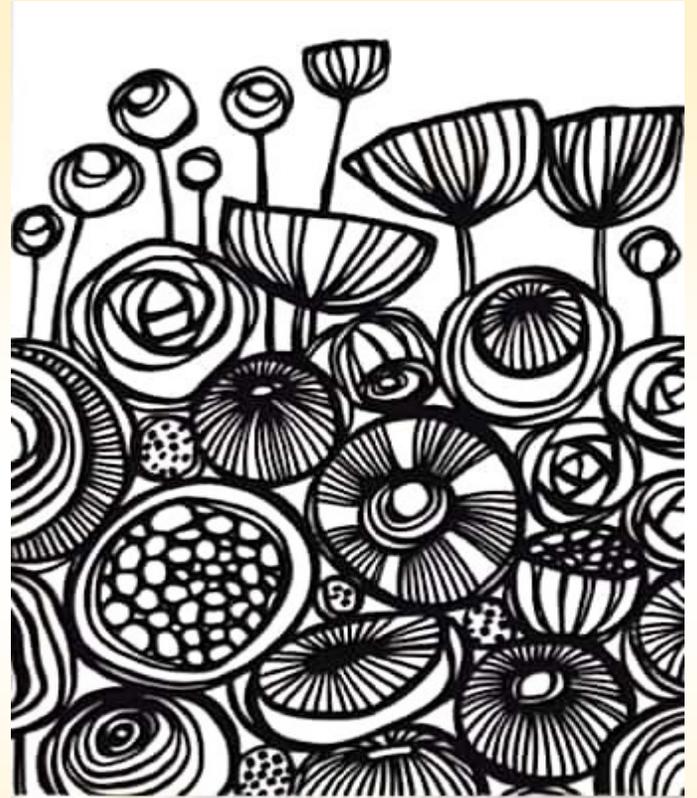




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