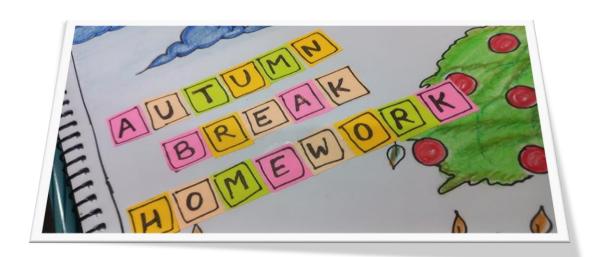


ARMY PUBLIC SCHOOL FATEHGARH CANTT

AUTUMN BREAK

HOLIDAY HOME WORK 2024-25



ARMY PUBLIC SCHOOL, FATEHGARH

AUTUMN BREAK HOLIDAY HOMEWORK

CLASS – XI SCIENCE

Session - (2024-25)

ENGLISH

- 1. Design 2 poster to highlight the importance of sports and games and Annual Sports Day at APS FATEHGARH.
- 2. Save Environment Write and design a travelogue in about 150 to 200 words.

Do this work on file papers. It will be carry 10 marks

PHYSICS

Complete the NCERT exercise of Chapters :-

- ❖ Work
- Energy & Power
- Motion in a plane.

CHEMISTRY

Qus1 Solve all the numerical problems of all the chapters

Qus2 Define hybridization with all the examples

Qus3 Define molecular orbital theory

Qus4 Chapter 1 and 2 all the Intex question

Qus5 Define chemical bonding

MATHEMATICS

CLASS: XI		SUBJECT: MATHEMATICS		
	QUESTIO	NS:		
1	How man	How many 3-digit numbers can be formed from the digits 1, 2, 3, 4 and 5 assuming that		
	(i)	Repetition of the digits is allowed?		
	(ii)	Repetition of the digits is not allowed?		
2	In how many ways can the letters of the word PERMUTATIONS be arranged if			
	(i)	Words start with P and end with S.		

	(ii) Vowels are all together.		
	(iii) There are always 4 letters between P and S.		
	ACTIVITIES:		
1	To prepare a model to illustrate the values of sine function and cosine function for different angles which are multiples of $\frac{\pi}{2}$ and π .		
2	To interpret geometrically the meaning of $i=\sqrt{-1}$ and its integral powers.		
3	To construct a Pascal's Triangle and to write binomial expansion for a given positive integral exponent.		

BIOLOGY

- 1- Complete your Practical work in file which are performed in the laboratory.
- 2-Students are encouraged to prepare a brief write up on selected topic for project work.
- 3-Complete the notes of chapter- Cell Division with diagrams.

ARTIFICIAL INTELLIGENCE

Learn and write in your fair copy.

Questions:

- 1. What is Regression?
- 2. Why do we use Neural Networks?
- 3. Explain:
 - Supervised Learning
 - Unsupervised Learning
 - Reinforcement Learning

COMPUTER SCIENCE (PRACTICAL FILE)

1. Write a program to accept the radius of a sphere from the user and display its area and volume.

Area=πr2 and volume=4πr3

- 2 Write a program to accept a number from the user and display its factorial.
- **3** Write a program to accept a number from the user and display whether it is a palindrome number or not.
- **4** Write a program to accept a number from the user and display whether it is a prime number or not.
- **5** Write a program to display the following pattern:

```
12
123
1234
12345
```

6 Write a program to display the following pattern:

```
*

* *

* *

* * *

* * * *
```

7 Write a program that reads a string and print its statistics like: Number of Uppercase letters, Number of lowercase letters, Number of alphabets, Number of digits, Number of symbols.

8 Write a program that asks the user for a string s and character c and then it prints the location of the character c in the string s.

FINEART

(Theory)

- 1. Revise the chapters
 - A) Pre-historic rock paintings
 - B) Indus valley civilization
 - C) Gandhara school of arts

(Practical)

1. Draw 5 Still life paintings

Note:- (Realistic with pencil shading) on A3 sheet.

PHYSICAL EDUCATION

Write down these questions answers in your notebook.

- A. Multiple-Choice Questions
- 1. Which is not a traditional sport of India?
- a. Kabaddi. b. Kho-kho c. Mallakhamba. d. Swimming.
- 2. National Games of India is commonly known as
- a. Indian Sports. b. Indian Oscar. c. Indian Olympics. d. Khelo-India.

- 3. When was the first recorded Olympics held?
- a. 786 BCE b. 776 BCE c. 706 BCE d. 756 BCE
- 4. Which medals were awarded in the ancient Olympic Games?
- a. Gold medals b. Silver medals c. Bronze medals d. No medals
- 5. When were the Olympic Games abolished?
- a. 394 CE b. 767 CE c. 596 CE d. 678 CE
- 6. Which is not the motto of Olympic Games inscribed on its emblem?
- a. Faster b. Greater c. Higher d. Stronger
- 7. Which is not a component of wellness?
- a. Physical wellness b. Social wellness c. Spiritual wellness d. Individual wellness
- 8. The ability of the muscle to act against resistance offered by an immovable object is called
- a. Static strength. b. Maximum strength.
- c. Explosive strength. d. Strength endurance.
- 9. How many limbs are there in Yoga?
- a. 6 b. 9 c. 8 d. 11
- 10. Which asana is also referred to as palm tree pose?
- a. Tadasana b. Sukhasana c. Padmasana d. Naukasana
- 11. Which of the following is not one of the categories of asanas?
- a. Meditative asanas b. Relaxative asanas c. Energetic asanas d. Cultural asanas

Note-: Complete revision work of following Units.

- 1. Changing Trends and Career in Physical Education (Unit-1).
- 2.Olympic value Education (Unit-2).
- 3. Yoga (Unit- 3).
- 4. Physical Education and Sports for Children With Special Needs (Unit-4).
- 5. Physical Fitness, Wellness and Lifestyle (Unit-5).