



ST. TERESA CONVENT SR. SEC SCHOOL SEC: 25, PANCHKULA
CLASS -11
HOLIDAY HOMEWORK



General Instructions :

1. Present your holiday homework in a beautifully decorated folder.
2. Parents are requested to only guide their wards while doing the assignment.
3. Originality of the work will be appreciated.

NOTE: The Summer Break is scheduled from 13.06.2021 to 04.07.2021

ENGLISH

Subject Teacher: Ms. Manjula

Email Id -meethiuppal@gmail.com

- 1) Pick five *unseen passages* from any English newspaper/ Magazine/ Previous books frame ten questions for the same and answer them (**attach the reference passages in your Notebook**)
- 2) Draft two advertisement, each for '*Situation Vacant*' and '*Sale & Purchase*' columns.
- 3) **Write any three Articles on;- * Media Biasing – Controlled by ruling party * Lockdown-How people all over the world are living through the pandemic. * Role of English in today's life. * Atrocities on women**
- 4) *Speaking Skills:-* Prepare a speech of about three and a half minute on any current topic of your choice. This shall be a part of ASL internal assessment to be conducted after the vacation.

MATHEMATICS

Subject Teacher: Ms. Sonia Verma

Email id – vermaaadya2014@gmail.com

1. Do complete the notes of given chapters: Chapters 1. Sets. 3 Trigonometry, 5. Complex Numbers, 6. Linear Inequalities.
2. Do complete the same topic activities in mathematics Lab. Manual.
3. Worksheet on Chapter : Sets

TOPIC : SETS

1 MARK QUESTIONS (VERY SHORT ANSWER)

1. If $A \subseteq B$ and $B \subseteq C$, is it true that $A \subseteq C$? Justify your answer
2. Find sets A, B & C such that $A \subseteq B, B \subseteq C$ & $A \subseteq C$ are non empty sets but $A \subseteq B \subseteq C =$
3. Find the cardinal number of the following sets i) $\{ \}$ ii) $\{1\}$ iii) $\{a, b, c\}$
4. Write the following sets as intervals
i) $\{x : x \in \mathbb{R}, x > -2\}$ ii) $\{x : x \in \mathbb{R}, x > -3\}$
5. If $A = \{1, 3, 5\}$, write all proper subsets of A
6. Describe the following sets in roster form
a) $\{x^2 < 25\}$ b) $\{x^2 < 25\}$
7. Describe the following sets in set-builder form
a) $I = \{0, 3, 6, 9, 12, \dots\}$ b) $\{1, 4, 9, 16, \dots, 100\}$
8. Which of the following pairs of sets are equivalent:
a) $\{2, 4, 6, 8\}$ and $\{a, b, c, d\}$
b) $\{x, y, z\}$ and $\{p, q, r, s\}$
c) The set of prime numbers less than 8 and the set of odd no. less than 10
d) The set of letters in the word 'EXAMINATION' and set of letters in the word 'ASSASSINATION'
9. Let $A = \{1, 2, 3, 4, 5, 6\}$, $B = \{3, 4, 5, 6, 7, 8\}$ and $C = \{4, 5, 6, 7, 8, 9, 10\}$, find ,a) $A - B$ b) $B - C$ c) $A - C$ d) $C - A$ e) $(A - B) \cap (B - A)$
10. If $A = \{1, 3, 5, 7, 9, 11\}$

a) Write the subset of A that contains all even numbers

b) Write the subset of A that contains all multiple of 3.

c) Write the subset of A that contains all no. less than 9.

1 MARKS QUESTIONS (SHORT ANSWER)

11. If A, B and C are sets, prove that $A \subset B, B \subset C \Rightarrow A \subset C$

12. Two finite sets have m and k elements. If the total number of subsets of first set is 56 more than the total number of subsets of second set, find m & k

13. Two finite sets have m & k elements. If the total number of subsets of first set is 56 more than the number of subsets of the second set, find the values of m & k

14. In a school, there are 20 teachers who teach Maths or Physics. Of these, 12 teach Maths and 4 teach Physics and Maths. How many teach Physics?

15. Write down all possible subset of each of the following sets: a) {0,1}
b) { }

16. Write down all possible proper subsets each of the following sets a) {1,2,3}
b) {1 }

17. Let $A = \{1,2,4,5\}$ $B = \{2,3,5,6\}$ $C = \{1,2,3,5,9\}$. Verify the following identities:

a) $(A \cup B) \cap C = (A \cap C) \cup (B \cap C)$

18. If $U = \{2,3,5,7,9\}$ is the universal set and $A = \{3,7\}$, $B = \{2,5,7,9\}$, then prove that

a) $(A \cup B) \cap C = (A \cap C) \cup (B \cap C)$ b) $(A \cap B) \cup C = (A \cup C) \cap (B \cup C)$

19. For any two sets if A and B, prove that a) $A \cap (A \cup B) = A$ b) $(A \cap B) \cup (A \cap \bar{B}) = A$

4 MARKS QUESTIONS (LONG ANSWER)

20. In a survey of 100 students, it was found that 28 watch action movies, 30 watch comedy movies, 42 watch news channels, 8 watch action and comedy movies, 10 watch action movies and newschannels, 5 watch comedy and news channels and 3 watch all 3 types of programs. Find out how many i) Watch News Channels only ii) Do not watch any of the three types of programs.

21. A & B are two sets such that $n(A - B) = 14 + x$, $n(B - A) = 3x$ & $n(A \cap B) = x$ If $n(A) = n(B)$, find

22. i) Value of x ii) $n(A \cup B)$

23. In a survey of 100 students regarding watching TV, it was found that 28 watch

action movies, 30 watch comedy serials, 42 watch news channels, 8 watch action movies and comedy movies; 10 watch action movies and news channels; 5 watch comedy serials and news channels and 3 watch all three types of programs. Find out how many watch

i) News channels only

ii) How many do not watch any program According to you, which TV program is useful and why?

24. In a class of 35 student 15 study Economics, 22 study Business studies and 14 study Advance Accountancy. If 11 students both Economics and Business studies, 8 study Business studies and Advanced Accountancy and 5 study Economics and Advanced Accountancy and if 3 if study all the three subjects, find how many students of the class are not taking any of these subjects.
25. In a college there are 1600 students. Out of these 450 play hockey, 500 play cricket and 325 play football. It is also known that 55 play both hockey and football. 40 play ball cricket and hockey and 51 play both football and cricket. If 54 students play all the three games. Find the number of students who do not play at all.
26. In an examination, 80% students passed in mathematics, 72% passed in science and 13% failed in both the subjects. If 312 students passed in both the subjects, find the total number of students who appeared in the examination.
27. Of the member of three athletic teams in a certain school, 21 are on the basketball team, 26 in hockey team and 29 in the football team. 14 play hockey and basketball, 15 play hockey and football, 12 play football and basketball and 8 play all the three games. How many members are there in all?
28. In the group 950 persons, 750 can speak Hindi and 460 can speak English. Find
- a) How many can speak both Hindi and English
 - b) How many any can speak Hindi only
 - c) How many can speak English only

PHYSICS

Subject Teacher: **Ms. Shweta**

Email Id:shweta.brar86@gmail.com

Do all the NCERT questions of chapter 2- Units and measurements, Ch 2 Motion in a straight line in your notebooks

CHEMISTRY

Subject Teacher: Ms.Sandhya Aggarwal

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Do all the NCERT questions of chapter 1 some basic concepts of chemistry and chapter 2 structure of atom

BIOLOGY

Subject Teacher: Ms.Sandhya Aggarwal

Email Id –aggarwalsandhya6@gmail.com

Do all the NCERT questions of chapter 1 The living world and chapter 2 biological classification.

ACCOUNTANCY

Subject Teacher: Mr.Atam

Email Id : atamunlimited@gmail.com

Complete back exercise questions of the following chapters: 1. Accounting Equation, 2. Journal, 3. Ledger

ECONOMICS

Subject Teacher : Ms. Poonam

Email Id: poonam1970mankotia@gmail.com

Do all NCERT questions of Chapters 1 Economics and economy,2 Central problem of an economy,3 Consumer equilibrium,4 Consumer equilibrium (micro economics) in your notebooks.

BUSINESS STUDIES

Subject Teacher: Mr.Atam

Email Id : atamunlimited@gmail.com

Make a project in your notebooks on the* Startup India *. Revise the chapters covered in the class.

HISTORY

Subject Teacher : Ms Neeta

Email Id :meets.kayaan12@gmail.com

Do complete chapter 1 and 2 exercises in history notebook also, write a note on Hominids, make a project on Mesopotamia

PHYSICAL EDUCATION

Subject Teacher : Ms Neeta

Email Id :meets.kayaan12@gmail.com

Do complete Chapter 1,2,3 and 4 exercises in notebook and learn it

IT TOOLS

Subject Teacher: Ms. Mubashira

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NOTE: Revise all worksheets shared along with syllabus completed & answer the following questions in your school notebook.

1. Write a short note on technology used in 5th generation computers.
2. In which generation integrated Circuits were used? Write a short note on it.
3. When were UNIVAC developed and by whom?
4. What are the components of a computer system? Explain it with a flow diagram.
5. Differentiate between input and output devices.
6. What do you understand by memory unit? Explain Primary & Secondary memory.
7. Sheenu is preparing a lecture on Output device like monitor. Discuss
 - a) Give some advantages of the output device used by Sheenu.
 - b) Write some disadvantages of the same output device also.
8. Describe the main applications of the computer.
9. Which one of the magnetic storage disc is also known as diskette? Explain it with its advantages & disadvantages.
10. Make a list of various memory units used in computers.
11. What do you understand by System & Application Software?
12. Write a short note Cloud Computing & Cloud Services.
13. Name the device which is used to read barcode. Explain in short.
14. Arrange the following memory units in ascending order of their storage capacities : Kilobyte, Byte, Terabyte, Megabyte.
15. Being a Computer Science student, it is important for you to know about different inventors/ developers in the world of technology. Research on any one of the following mentioning their achievements and contributions in the field of technology. Create a biography through PowerPoint presentation/ Blog.

POLITICAL SCIENCE

Subject Teacher: Mr. Atam

Email Id : atamunlimited@gmail.com

I ONE "ONLINENEWSLETTER"/ FILE TO BE PREPARED BY THE CLASS ON ANY ONE OF THE FOLLOWING TOPICS :

- | | |
|---|---------------------------------|
| a. Democracy : strengths and shortcomings | c. International politics. |
| b. Northeast India. or all . | d. Rights : A privilege for few |

RESEARCH ON TOPIC AND COMPILE IT WITH CARTOONS, CARICATURES, SLOGANS AND POSTERS

II PREPARE A REPORT ON ANY ONE TOPIC:

- Impact of FDI in multi-brand retail .
- Electoral Reforms - Code of Conduct for Political Parties and Anti- Defection Law.

Tips for the Project:

PREFACE:

1. Name of Project:
2. Problem Statement / Objective of Project:
The objective of the project is know the: (quote from the objectives given for your topic)

HINDI

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1.चित्रांकन सहित भित्ति-पत्रिका बनाएँ - मेरा शहर कल और आज -

आपके शहर के सामाजिक जीवन, संस्कृति और मानवीय संबंधों आदि में पिछले 8-10 वर्षों में क्या परिवर्तन आए हैं, यह जानने के लिए ऐसे तीन वरिष्ठ लोगों से बातचीत कीजिए जो पिछले 8-10 वर्षों से उसी शहर में एक शिक्षक, दुकानदार, वकील, अभियंता ,डॉक्टर , सरकारी कर्मचारी आदि किसी भी रीप में काम कर रहे हों। एक प्रश्नावली बनाकर उनसे साक्षात्कार लें। उनसे यह जानने की कोशिश कीजिए कि पिछले वर्षों में आपका शहर कितना बदल गया है ? इस बदलाव का सामाजिक जीवन और संबंधों पर क्या प्रभाव पड़ा है ? इन बदलावों के कारण क्या हैं ? उनसे मिली जानकारी के आधार पर 300-350 शब्दों की एक रिपोर्ट तैयार कीजिए।

2. पुस्तक समीक्षा हेतु प्रस्तावित पुस्तकों में से किसी एक पुस्तक की पुस्तक समीक्षा लिखें।

पुस्तक समीक्षा हेतु प्रस्तावित पुस्तकें -

- 1) महादेवी वर्मा के संस्मरण
- 2) प्रेमचंद द्वारा लिखित उपन्यास- गोदान
- 3) मन्नू भंडारी की प्रतिनिधि कहानियाँ
- 4) अमृता प्रीतम की प्रतिनिधि कहानियाँ