

HOLIDAY – HOMEWORK

ENGLISH – CLASS – XI – 2020- 2021

1. Write an article on 'Covid – 19, the Pandemic', what it is, signs & Symptoms, how it spreads and ways to stay safe.
2. Click to these links given below- (Related to chapter no 3 – Discovering Tut: The Saga Continues.



- a) <https://youtu.be/6md5qDSXwXM> and watch The Mystery of Tutankhamun's Gold: Egypt Detectives(Ancient Egypt Documentary)
- b) <https://youtu.be/V7HtbsrRtl8> (History Documentary BBC - King Tut's Life and Death -Ancient)

Collect all the information about Tutankamun's life and the mystery behind his death.

3. Complete all the assignments in your fair notebook.

English Assignment - 1

THE PORTRAIT OF A LADY

1. Answer any 6 of the following questions in about 20 – 30 words each.
2. What stories of the grandmother did the author treat as 'Fables' of the Prophets? Why?
3. Explain 'As for my grandmother being young and pretty, the thought was almost revolting.'
4. The grandmother had a divine beauty. How does the author bring it out?
5. Why did the grandmother accompany the narrator to his school? What did she do there?
6. What was the turning point in their friendship?
7. What were the happiest moments of the day for the grandmother?
8. Why didn't the sparrows take any notice of the bread crumbs thrown to them? How would you explain their strange behaviour at the death of the grandmother?
9. What does Khushwant Singh describe in the Portrait of a Lady?

10. What is the significance of sparrows in grandmother's life?

2. Answer any 6 of the following questions in about 100 - 120 words.

1. Mention the three phases of the author's relationship with his grandmother before he left the country to study abroad.
2. Mention three reasons why the author's grandmother was disturbed when he started going to the city school.
3. What are the different ways in which we come to know that the author's grandmother was a religious person?
4. Describe the changing relationship between the author and his grandmother. Did their feelings for each other change?
5. How can you say that the author's grandmother was a person strong in character? Give instances to prove your answer.
6. Describe the friendship between Khushwant Singh and his grandmother.
7. Describe how the common bond of friendship was broken when the narrator's parents called them in the city.
8. Draw a contrast of the life the narrator's grandmother spent in the village with the kind of life she led in the city.

ASSIGNMENT NO' – 2 & 3

A PHOTOGRAPH – SHIRLEY TOULSON

1. Read the stanzas given below and then answer the following questions briefly:

i) **The cardboard shows me how it was
When the two girl cousins went paddling,
Each one holding one of my mother's hands,
And she the big girl—some twelve years or so.**

- a) What does the word cardboard suggest?
- b) Who is the big girl here?
- c) Why were the two cousins holding on to the poetess' mother's hand?

ii) **All three stood still to smile through their hair
At the uncle with the camera. A sweet face,
My mother's, that was before I was born.
And the sea, which appears to have changed less,
Washed their terribly transient feet.**

- a) When was the photograph clicked?
- b) What does the word 'transient' indicate?
- c) Explain: 'Washed their terribly transient feet'.

iii) **Some twenty — thirty — years later
She'd laugh at the snapshot.**

**“See Betty And Dolly,” she’d say, “and look how they
Dressed us for the beach.”**

- a) Name the poem and its poet.
- b) why would the poetess mother laugh at the snapshot?
- c) Who were Betty and Dolly?

iv) The sea holiday

**Was her past, mine is her laughter. Both wry
With the laboured ease of loss.
Now she’s been dead nearly as many years
As that girl lived. And of this circumstance
There is nothing to say at all.
Its silence silences.**

- a) Which sea holiday is referred here?
- b) Explain : Both wry with the laboured ease of loss.
- c) What does ‘she’s been dead’ refer to?
- d) Explain : ‘its silence silences’.

2. Answer the following question in about 20 – 30 words each.

- a. What does the word ‘cardboard’ denote in the poem? Why has this word been used?
- b. What has the camera captured?
- c. What has not changed over the years? Does this suggest something to you?
- d. The poet’s mother laughed at the snapshot. What did this laugh indicate?
- e. What is the meaning of the line “Both wry with the laboured ease of loss.”
- f. What does “this circumstance” refer to?
- g. The three stanzas depict three different phases. What are they? (**answer in about 80 – 100 words**)

THE LABURNUM TOP – TED HUGHES



Goldfinch



Read the extract carefully and answer the questions that follow :

**The laburnum top is silent, quite still
In the afternoon yellow September sunlight,
A few leaves yellowing, all its seeds fell.
Till the goldfinch comes, with a twitching chirrup
A suddenness, a startlement, at a branch end.**

- (i) What is the significance of the 'Laburnum top' here?
- (ii) Which season has been described in these lines?
- (iii) What commotion does the bird create? How?

**Then sleek as a lizard, and alert, and abrupt,
She enters the thickness, and a machine starts up
Of chitterings, and a tremor of wings, and trillings—
The whole tree trembles and thrills.
It is the engine of her family.**

- (i) To what is the goldfinch's movement compared? Why?
- (ii) Why does the poet use the word 'engine'?
- (iii) Which two sounds dominate in this extract?

**She stokes it fully, then flirts out to a branch-end
Showing her barred face identity mask
Then with eerie delicate whistle-chirrup whisperings
She launches away, towards the infinite
And the laburnum subsides to empty.**

- (i) Who does 'she' refer to? What does she stoke?
- (ii) What is the identification mask of the bird?
- (iii) What do you notice about the beginning and the ending of the poem?
- iv) Explain: 'Showing her barred face identity mask'.

1. Short Answer Type Questions (30 to 40 words)

- a. What gives a unique character to that particular laburnum tree?
- b. How does the poet describe the laburnum tree?
- c. How does the poet describe the goldfinch bird?
- d. What does the Goldfinch do after showing her barred face?
- e. What happens to the Laburnum tree after the goldfinch flies away?

HOLIDAY HOMEWORK 2020 -21

BUSINESS STUDIES

CLASS XI

1. The maritime routes linked the east and the west by sea and were used for the trade of spices and known as _____ .
(Fill up the blank with correct answer)
2. Commercial cities like Harappa and Mohenjodaro were founded in the third millennium B.C. The civilisation had established commercial connections with Mesopotamia and traded in _____, coloured gemstones, beads, pearls, sea shells, terracotta pots, etc.
(Fill up the blank with any two items of trade)
3. As economic life progressed, metals began to supplement other commodities as money because of its _____ and _____ .
(Fill up the blanks with correct answers)
4. In ancient India, documents such as _____ and _____ were in use for carrying out transactions in which money passed from hand to hand.
(Fill up the blanks with correct answers)
5. The Indian subcontinent enjoyed the fruits of favourable balance of trade, where _____ exceeded _____ with large margins.
(Fill up the blanks with correct answers)
6. _____ and _____ banks later evolved to finance trade and commerce and agricultural banks to provide both short-and long-term loans to finance agriculturists.
(Fill up the blanks with correct answers)
7. _____ was another important branch of global trade network. Malabar Coast, on which Muziris is situated, has a long history of international maritime trade going back to the era of the Roman Empire. (Fill up the blank with correct answer)
8. Pepper was particularly valued in the Roman Empire and was known as _____ . (Fill up the blank with correct answer)
9. Calicut was such a bustling emporium that it was even visited by Chinese ships to acquire items, like frankincense (essential oil) and myrrh (fragrant resin used in perfumes, medicines) from the Middle East, as well as, _____
(Fill up the blank with correct answer)
10. On the Coromandel Coast, Pulicat was a major port in the 17th century. _____ were the principal export from Pulicat to Southeast Asia.
(Fill up the blank with correct answer)
11. Punjabi and Multani merchants handled business in the northern region, while the _____ managed the trade in the states of Gujarat and Rajasthan.
(Fill up the blank with correct answer)
12. _____ was another source of income generation. It had to be paid for passengers, goods, cattle and carts.
(Fill up the blank with correct answer)
13. Match the Columns
(i) Pataliputra (A) major centre for export of stones
(ii) Peshawar (B) major centre of textile industry
(iii) Indraprastha (C) commercial junction on the royal road
(iv) Varanasi (D) important exporting centre for wool and for the import of horses

14. The First Five Year Plan was implemented in 1952. Due importance was given to the establishment of _____ .
(Choose the correct alternative)
(a) modern industries (b) modern technological and scientific institutes
(c) space and nuclear programmes (d) All of these

In the first five year plan, due importance was given to the establishment of modern industries, modern technological and scientific institutes, space and nuclear programmes. Despite these efforts, the Indian economy could not develop at a rapid pace. Why?

21. Following are the hundi against their respective aspects:

<i>Hundi</i>	<i>Aspects</i>
1. Dhani-jog	(i) Payable to a specific person
2. Sah-jog	(ii) Payable to any person
3. Firman-jog	(iii) Payable to order
4. Dekhan-har	(iv) Payable to the presenter

Select the most appropriate combination:

- (a) 1. (iv); 2. (iii), 3. (ii), 4. (i) (b) 1. (iv); 2. (i), 3. (iii), 4. (ii)
(c) 1. (ii); 2. (iii), 3. (iv), 4. (i) (d) 1. (ii); 2. (i), 3. (iii), 4. (iv)

22. Following are the traders against their respective trading region:

<i>Traders</i>	<i>Trading region</i>
1. Multani	(i) Gujarat region
2. Bhats	(ii) Northern region
3. Mahajan	(iii) Western region
4. Chatt	(iv) Southern region

Select the most appropriate combination:

- (a) 1. (iv); 2. (iii), 3. (ii), 4. (i) (b) 1. (iv); 2. (i), 3. (iii), 4. (ii)
(c) 1. (ii); 2. (iii), 3. (iv), 4. (i) (d) 1. (ii); 2. (i), 3. (iii), 4. (iv)

23. In urban centres, the Mahajan was community collectively represented by their chief called.....

- (a) Nagarseth (b) Hakim (c) Wakil (d) Mulla

Activate V
Go to Setting

24. Following are the traders against their respective trading region:

<i>Trading Town</i>	<i>Centre for</i>
1. Pataliputra	(i) export of perfumes
2. Peshawar	(ii) export of sandalwood
3. Varanasi	(iii) export of wool
4. Kaveripatta	(iv) export of stones

Select the most appropriate combination:

- (a) 1. (iv); 2. (iii), 3. (ii), 4. (i) (b) 1. (iv); 2. (i), 3. (iii), 4. (ii)
(c) 1. (ii); 2. (iii), 3. (iv), 4. (i) (d) 1. (ii); 2. (i), 3. (iii), 4. (iv)

25. Malabar Coast, on which Muziris is situated, has a long history of international maritime trade going back to the era of the Roman Empire,was particularly valued in the Roman Empire and was known as 'Black Gold'.

- (a) Pepper (b) Petrol (c) Cardamom (d) Black pearl

PART B

Q1. Mr Sonu sold his washing machine & refrigerator on Quikr as he was shifting base to London. Is this A Business Activity ?

Q 2.What type of industry is fishing?

Q3.What type of industry are poultry farms and plant nurseries?

Q4.Which one of the broad categories of industries covers oil refinery and sugar mills?

Q5. ABC Ltd. Inventing a new machinery to curb its production problem. Which objective it is trying to achieve?

Q6. What reward does the businessman get for bearing risks?

Q7. Tea is mainly produced in Assam, while cotton in Gujrat & Maharastra but they are required for consumption in different parts of the country. How can this hindrance of place be removed? Also under what business activity will it be categorised.?

Q8 'Kodak Pics' is an advertisement agency initiated by Rahul, Sushmita & Prema. They have called a meeting to discuss the below given points

(i) Increase the profit margin by 20% in july.

(ii) Aiming bigger share in the market.

(ii) Making use of better lenses & improved techniques.

(iv)Making best use of cameramen, finance etc. employed by the business etc. employed by the business

(v) Improve efficiency in functioning of business.

(a)Which aspects of business objectives are being referred to here?

(b)Also develop each point to be discussed in the meeting by classifying the objective?

Q9 JawaharLal prepares 'Ghujiya' for customers during Holi season every year. He prepared more 'Ghujiya' than he could sell this year. He employed women and children also and paid them less salary manufacturing on the packages. This way he generated profit for himself.

(a)Do you think he is fulfilling all the objectives of business?

(b) If not which aspects of this objective are not being fulfilled?

(c) Write any two values lacking in JawaharLal.

Q 10 Different situations in different business are being elaborated below:

(i) Raghunath Gorkha had a match stick factory in Nepal which got destroyed by the recent earthquake.

(ii) Mr Arya, a senior manager in a telecom company shared confidential information about the company with a competitor which led to huge losses for the company.

(iii) Vodafone Co. was charged with evasion of tax and asked to pay fine in crores which would lead to heavy losses for the company.

(iv) Type writers becoming redundant is being referred to in all the above cases?

(a) Which characteristic of business is being referred to in all the above cases

(b) How can you classify the different cases based on this characteristics?

Q11 Dr. Sanvi is an orthopedic surgeon in AIIMS Hospital and Dr Maruti, her friend is a Pediatrician who has set his own clinic. Dr Maruti's wife, Ms. Aditi operates her Cosmetic store. Compare & differentiate the nature of tasks undertaken

Rajiv wants to start a whole sale business of readymade garments, but he is hesitating as it involves various problems such as searching for customers, for moving goods from place of production to market, informing customers about new designs and varieties added every season, threat of risk loss by fire or accident, storing the excess stock of goods, etc. He approaches his friend Sandeep who explained him about some branches of commerce, which can help Rajiv to overcome his hesitation.

(a) State the type of business Rajiv is planning to start.

(b) State which dimension of business can help Rajiv to overcome these hindrances.

(c) Specify different types of Auxiliaries to trade which can help Rajiv to overcome his problems. Quote the line for each type from above para.

Q12 Ajit was running a trading business in India. Now, he has extended its operations to Dubai and USA by establishing places of business in these countries. In order to increase sales in Dubai, the company adopted selling strategies like sales promotion and advertising. As the company had an excellent credibility in the capital market, it was able to meet all its financial requirements by borrowing from Citi Bank.

On the basis of the given information about Ajit, answer the following questions:

(a) Identify and explain the auxiliaries to trade used by Ajit for running his business. Also quote lines.

(b) Identify the type of trade carried on by Ajit earlier and now. (3 Marks)

Q13 Newland Tea Ltd. is a Singapore based company dealing in import of tea from India and re-exporting it to many South-East Asian Countries. It has a huge godown near the sea port where it has made scientific arrangements for storing tea till it is re-exported.

On the basis of the given information about Newland Tea Ltd, answer the following questions:

(a) Name and explain the type of trade referred to above?

(b) Name the aids to trade being utilized by Newland Tea Ltd., and which utility does it create? (3 Marks)

Q14 Sona Technologies Ltd. have developed a hand powered, portable washing machine that can clean your clothes in a flash. Their product is very different as compared to other washing machines currently sold in the market. The profit margins are

kept low to motivate people from lower middle class to buy the product. The company wants to provide information about new features, price, availability and brand name to the target market. At present the company is only delivering their product in Japan but they are planning to tie up with Amazon for delivering it to other parts of world too.

On the basis of the given information about Sona Technologies Ltd., answer the following questions:

(a) Name and explain the service facility/aids to trade which the company can utilize to inform the target market about their product.

(b) Which hindrance of commerce is removed by Amazon? (3 Marks)

Q15 : Mr. Amar has two sons Vikas and Sanjay. After completing their graduation his sons decided to start their own business of manufacturing readymade garments for men. Since they had a commercial space with them near their house so they started a factory. They purchased the cloth in bulk for trousers and shirts from wholesale market. They employed 10 tailors and 2 salesman. Since some of their relatives were already in same line, they did not face any problem in finding the buyers. They earned 20 percent profit in their first year of operation. During the second year of their operation due to theft in their factory, they suffered a loss of Rupees 50,000. Their father told them to not lose heart as risk is a part of every business. Their business started flourishing and they opened their own outlet at a populous location in city after few years of operation and due to tough competition in business of men's clothing they decided to enter into women's clothing line too. On the basis of the given information about business done by Vikas and Sanjay, answer the following questions:

(a) Identify any five features of business by quoting the line from the above case.

(b) Also, state the feature of business not identified above. (6 Marks)

Q16 Nikhil wants to start a wholesale business of stationery items. But he is hesitating as it will involve hindrances related to finding consumers, moving goods from place of production to market, storing goods because of time gap between production and consumption, risk of theft, fire, accidents, procurement of capital to finance above activities, providing information to the consumers about products etc. He approaches his friend Anant to discuss his problem. Anant, who himself imports the electric appliances for the purpose of exporting them to other countries, advises Nikhil to carry on with his plan and explains to him various functions performed by the second limb of business i.e., Commerce.

Anant elaborates on various advantages of 'trade' and 'auxiliaries to trade' . After getting convinced by the advice given by Anant, Nikhil starts the business named Nikhil Ltd. and finds no major problems at all in converting his desire into a business venture. Nikhil gets his company registered under the Companies Act 2013.

(a) Name the part of commerce which exclusively helps in the process of trading the goods and services.

(b) Name the type of trade under which Anant was doing his business.

(c) Name the service which helps Nikhil to remove the hindrance of storing the stationery items.

(d) Name the service which helps Nikhil to remove the hindrance of place.

Q17

MVT Construction Pvt. Ltd. deals in constructing building, bridges, roads and dams by using cement, steel, bricks and wood. There are 1000 employees in all working in this company. The managing director of the company, Mr. Shyamsundar, takes full care of the quality of work done. Recently, the company got a contract of constructing five big buildings, two bridges, one long road and one dam. The company has got a special division also, which owns one hundred trucks. These trucks are used for transporting goods on hire. This division is working quite successfully under the supervision of the divisional manager, Radhika Dasi.

Identify and state two types of industrial activities from the above para by quoting the lines. (3 marks)

Q18

Dr. Rajiv Mishra is working against the post of a senior doctor in a government hospital. He does not discriminate between the rich and poor while treating his patients medically. When he returns home from the hospital, he attends to the poor patients at home free of cost between 6 pm to 8 pm. Besides, he gives them the information about the employment opportunities. He advises many young people to go into the fields of advertising and transportation. They went into these fields and remarkably succeeded there.

(i) What type of activities does Dr. Rajiv Mishra perform in the hospital and at home?

(ii) Explain the auxiliaries to trade mentioned in the above para.

(4 marks)

Q19

In ancient India, the Greeks sailed from Egypt in the month of July and arrived at Muziri in about 40 days. They stayed on the Malabar Coast for about three months and commenced their return journey from Muziri in December or January. As the Indian seas were infested by pirates, the Greek merchants brought with them cohorts of archers on board their ships. Egypt being at this period subject to Rome, the archers who accompanied the Greek merchants were Roman soldiers. The Pandyan kings sent embassies to Rome and had employed Roman soldiers as guards. There was a colony of Yavana merchants at Kaveripattanam, whose existence is an index of prosperity of merchant communities and professional classes. That Roman gold poured largely into Tamil country at this period, is attested by the numerous Roman coins dating from the reign of Augustus to that of Zeno which have been found buried in different parts of Tamilnadu.

On the basis of the given information about ancient India, answer the following questions:

- State the concept used in ancient India whose existence is an index of prosperity of merchant communities and professional classes.
- Enlist the important kinds of concept whose existence is an index of prosperity of merchant communities and professional classes.
- Enlist a few examples of the concept used in ancient India whose existence is an index of prosperity of merchant communities and professional classes. (6 Marks)

Q20

CASELET 6: The merchant community derived power and prestige from guilds. Even kings were supposed to accept and respect the rules of these guilds. The guild chief dealt directly with the king or tax collectors and settled the market toll on behalf of its fellow merchants at a fixed sum of money. The guild merchants also acted as custodians of religious interests. They undertook the task of building temples and made donations by levying a corporate tax on their members. The commercial activity enabled big merchants to gain power in the society.

On the basis of the given information about the merchant community, answer the following questions:

- (a) "Even kings were supposed to accept and respect the rules of these guilds". Identify the guild being specified in the case.
- (b) Enlist the main functions of the guilds whose rules were accepted by even kings.

(3 Marks)

Holiday Homework

Class: XI (H + C)

Subject: Economics

Project on following topic:

1. Detail study on consumer awareness about refrigerators (using primary data) with respect to:
 - (i) Price
 - (ii) Feature
 - (iii) Quality
 - (iv) Availability
 - (v) Warranty
 - (vi) After sale service
 - (vii) Computer analysis in the same segment

Use relevant data, graphical and diagrammatic presentation, newspaper clippings and case studies.

APEX PUBLIC SCHOOL
SESSIO: 2020 – 2021
CLASS – XI
SUBJECT – Informatics Practices
HOLIDAYS HOMEWORK

1. Define a computer.
2. How does an ALU work?
3. Briefly explain the working of a control unit.
4. Difference between Hardware and Software.
5. What is an Operating System?
6. Explain the types of operating systems with examples.
7. “Hardware is of no use without software and software cannot be used without Hardware.” Explain.
8. Specify the measuring units of memory.
9. What are the output devices? Give some examples.
10. Difference between RAM and ROM.
11. Difference between interpreter and compiler.
12. What are the secondary storage devices? Give examples
13. What is Python?
14. Who developed python and when?
15. State some distinguishable features of Python.
16. What is the difference between interactive mode and script mode in Python.
17. Define the following Python terms: -
 - (a) tokens
 - (b) keywords
 - (c) identifiers
 - (d) operators
 - (e) Punctuators
18. Write a python code to enter two numbers from the user and calculates Product.
19. Write a python code to enter side of a square and calculates area and perimeter of square.
20. Find the output: -
 - (a)

```
>>> print("Hello")
```
 - (b)

```
x = 3  
y = x+2  
x+ = y  
print(x, y)
```

Go to the following links: -

- Introduction to programming language - <https://youtu.be/90SGT9qJZa4> or <https://youtu.be/rV96bx6pl4Q>
- Getting started with Python programming - <https://youtu.be/yW8ztojxjZU> or <https://youtu.be/xRM1KFRn7nk>
- Write your first code in python - <https://youtu.be/cdQXNAkVJwA> or https://youtu.be/_Wp_IYwwCNM
- Learn programming - <https://www.youtube.com/channel/UC6BYXyC9Xo5JVEJosWmvZVQ>

HOLIDAY HOMEWORK :- CLASS XI

MATHEMATICS

Chapter -1 (SETS)

WORKSHEET :- 1

Which of the following are sets? Justify your answer.

1. The collection of all the months of a year beginning with letter M
2. The collection of difficult topics in Mathematics.

Let $A = \{1,3,5,7,9\}$. Insert the appropriate symbol \in or \notin in blank spaces: – (Question- 3,4)

3. $2 \underline{\hspace{1cm}} A$
4. Write the set $A = \{x : x \text{ is an integer, } -1 \leq x < 4\}$ in roster form
5. Write the set $B = \{3,9,27,81\}$ in set-builder form.

Which of the following are empty sets? Justify. (Question- 6,7)

6. $A = \{x : x \in \mathbb{N} \text{ and } 3 < x < 4\}$
7. $B = \{x : x \in \mathbb{N} \text{ and } x^2 = x\}$

Which of the following sets are finite or Infinite? Justify. (Question-8, 9)

8. The set of all the points on the circumference of a circle.
9. $B = \{x : x \in \mathbb{N} \text{ and } x \text{ is an even prime number}\}$
10. Are sets $A = \{-2,2\}$, $B = \{x : x \in \mathbb{Z}, x^2 - 4 = 0\}$ equal? Why?
11. Write $(-5,9]$ in set-builder form
12. Write $\{x : x \in \mathbb{R}, -3 \leq x < 7\}$ as interval.

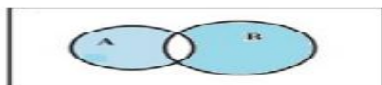
13. If $A = \{1,3,5\}$, how many elements has $P(A)$?
14. Write all the possible subsets of $A = \{5,6\}$.

If $A =$ Set of letters of the word 'DELHI' and $B =$ the set of letters the words 'DOLL' find (Question- 17,18,19)

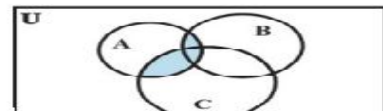
15. $A \cup B$
16. $A \cap B$
17. $A - B$
18. Are sets $A = \{1,2,3,4\}$, $B = \{x : x \in \mathbb{N} \text{ and } 5 \leq x \leq 7\}$ disjoint? Why?

What is Represented by the shaded regions in each of the following Venn-diagrams. (Question 19,20)

19.



20.



21. If $A = \{1, 3, 5, 7, 11, 13, 15, 17\}$

$$D = \{2, 4, 6, 8, \dots, 10\}$$

and U is universal set then find $A' \cup [(A \cup B) \cap B']$

Chapter-2 (RELATION and FUNCTION)

Worksheet- 2

1. Find a and b if $(a - 1, b + 5) = (2, 3)$
If $A = \{1,3,5\}$, $B = \{2,3\}$, find : (Question-2, 3)
2. $A \times B$
3. $B \times A$
Let $A = \{1,2\}$, $B = \{2,3,4\}$, $C = \{4,5\}$, find (Question- 4,5)
4. $A \times (B \cap C)$
5. $A \times (B \cup C)$
6. If $P = \{1,3\}$, $Q = \{2,3,5\}$, find the number of relations from P to Q
7. If $R = \{(x,y): x,y \in Z, x^2 + y^2 = 64\}$, then,
Write R in roster form
Which of the following relations are functions? Give reason.
(Questions 8 to 10)
8. $R = \{ (1,1), (2,2), (3,3), (4,4), (4,5)\}$
9. $R = \{ (2,1), (2,2), (2,3), (2,4)\}$
10. $R = \{ (1,2), (2,5), (3,8), (4,10), (5,12), (6,12)\}$
11. If A and B are finite sets such that $n(A) = 5$ and $n(B) = 7$, then find the number of functions from A to B.
12. If $f(x) = x^2 - 3x + 1$ find $x \in R$ such that $f(2x) = f(x)$
Let f and g be two real valued functions, defined by, $f(x) = x$, $g(x) = |x|$.
Find: (Question 13 to 16)
13. $f + g$
14. $f - g$
15. fg
16. $\frac{f}{g}$
17. If $f(x) = x^3$, find the value of,
 $\frac{f(5) - f(1)}{5 - 1}$
18. Find the domain of the real function,
 $f(x) = \sqrt{x^2 - 4}$
19. Find the domain of the function, $f(x) = \frac{x^2 + 2x + 3}{x^2 - 5x + 6}$
Find the range of the following functions.
20. $f(x) = \frac{1}{4 - x^2}$

Activity 1 :- This lesson is designed to introduce students to the idea of a set and what it means to be contained in a set. Students will experiment with sets in conjunction with the Venn Diagram.

Link <http://www.shodor.org/interactivate/lessons/SetsTheVennDiagram/>

APEX PUBLIC SCHOOL
SESSIO: 2020 – 2021
CLASS – XI
SUBJECT – Computer Science
HOLIDAYS HOMEWORK

1. Define a computer.
2. How does an ALU work?
3. Briefly explain the working of a control unit.
4. Difference between Hardware and Software.
5. What is an Operating System?
6. Explain the types of operating systems with examples.
7. “Hardware is of no use without software and software cannot be used without Hardware.” Explain.
8. Specify the measuring units of memory.
9. What are the output devices? Give some examples.
10. Difference between RAM and ROM.
11. Difference between interpreter and compiler.
12. What are the secondary storage devices? Give examples
13. What is Python?
14. Who developed python and when?
15. State some distinguishable features of Python.
16. What is the difference between interactive mode and script mode in Python.
17. Define the following Python terms: -
 - (a) tokens
 - (b) keywords
 - (c) identifiers
 - (d) operators
 - (e) Punctuators
18. Write a python code to enter two numbers from the user and calculates Product.
19. Write a python code to enter side of a square and calculates area and perimeter of square.
20. Find the output: -
 - (a)

```
>>> print("Hello")
```
 - (b)

```
x = 3  
  
y = x+2  
  
x+ = y  
  
print(x, y)
```

Go to the following links: -

- Introduction to programming language - <https://youtu.be/90SGT9qJZa4> or <https://youtu.be/rV96bx6pl4Q>
- Getting started with Python programming - <https://youtu.be/yW8ztojxjZU> or <https://youtu.be/xRM1KFRn7nk>
- Write your first code in python - <https://youtu.be/cdQXNAkVJwA> or https://youtu.be/_Wp_IYwwCNM
- Learn programming - <https://www.youtube.com/channel/UC6BYXyC9Xo5JVEJosWmvZVQ>

Psychology Class XI (2020-2021)

Holidays Homework

Instructions:

- 1. Pending class assignments to be completed.***
- 2. Syllabus covered to be revised.***
- 3. Introduction of the Practical to be written in fair.***
- 4. submission Date: just after vacation.***

Project work

The students are required to undertake one compulsory project during this academic year as per CBSE guidelines. The project would involve the use of different methods of enquiry and related skills.

The objective of this project is to familiarize the students with:

- The Goals of psychological enquiry.
- Steps involved in a Conducting Scientific research.
- Some important methods: Observation, Experimental, Co -relational study, Interview, Case study, Psychological tools: Tests and Questionnaires
- Analysis of data and its representation (such as Pie-charts, bar-diagram, cumulative frequencies).
- Learning Ethical issues in the study of psychological processes.

Students can take up any of the topics mentioned below:

1. Stigma around mental Health.
2. Stress during the times of Corona and it's management.
3. Impact of Bullying on the mental Health of victim.
4. Exploring Gender roles: Understanding among Individuals
5. Understanding Learning Disabilities.

*** Topic selected to be informed to the concerned subject Teacher for approval.**

General instructions to be followed:

1. The students can work in a group of 4.
2. Separate files to be submitted by all members.
3. Questionnaire method is compulsory to use.
4. Both Open ended and close ended questions to be included .
5. Questionnaire should consist of Minimum 15 questions .
6. Transcripts of the Interview ,if taken (face to face or telephonic) are compulsory.
7. Sample for data collection : Minimum 8 Individuals.
8. Gender Ratio to be strictly maintained.

The format of the project is as follows:

Page 1: Psychology Practical File

(with School Name, Full name, class and section and roll no.)

Page 2: Title of the Topic chosen.

Page 3: Acknowledgment

Page 4: Index

CHAPTER 1

- Introduction
 1. steps in Conducting scientific research
 2. Introduction to the chosen topic and
 3. Related sub topics
 4. Recent research in the concerned area .

CHAPTER 2

- Methodology
 1. Sample: Description of the sample and Preliminaries.
 2. Tools Used:
 - 2.1. Introduction to Interview , advantages and disadvantages of interview method.
 - 2.2. Introduction to questionnaire, advantages and disadvantages of questionnaire method.

CHAPTER 3

- Results and data Analysis (using Graphical methods)

CHAPTER 4

- Discussion and conclusion.

References

Appendix

- Transcripts of the Interview
- Filled Questionnaires.

***Note :**

- Draft of the Questionnaire and discussion to be approved by the concerned subject Teacher.

Class XI

ASSIGNMENT

Chapter 1 - What is Psychology?

Instructions:

- **The Assignment consist of 3 parts, Part A,B, C**
- **Part A has 10 questions of 1 mark each.**
- **Part B consist of 3 questions, 2marks each, word limit 30-40 words.**
- **Part C consist of 3 questions, 3 marks each, word limit 70-100 words.**
- **All Questions are compulsory.**
- **Use relevant examples to support your answers.**
- **To be done in the fair Psychology Register.**

Part A: Learning checks(1 mark each)

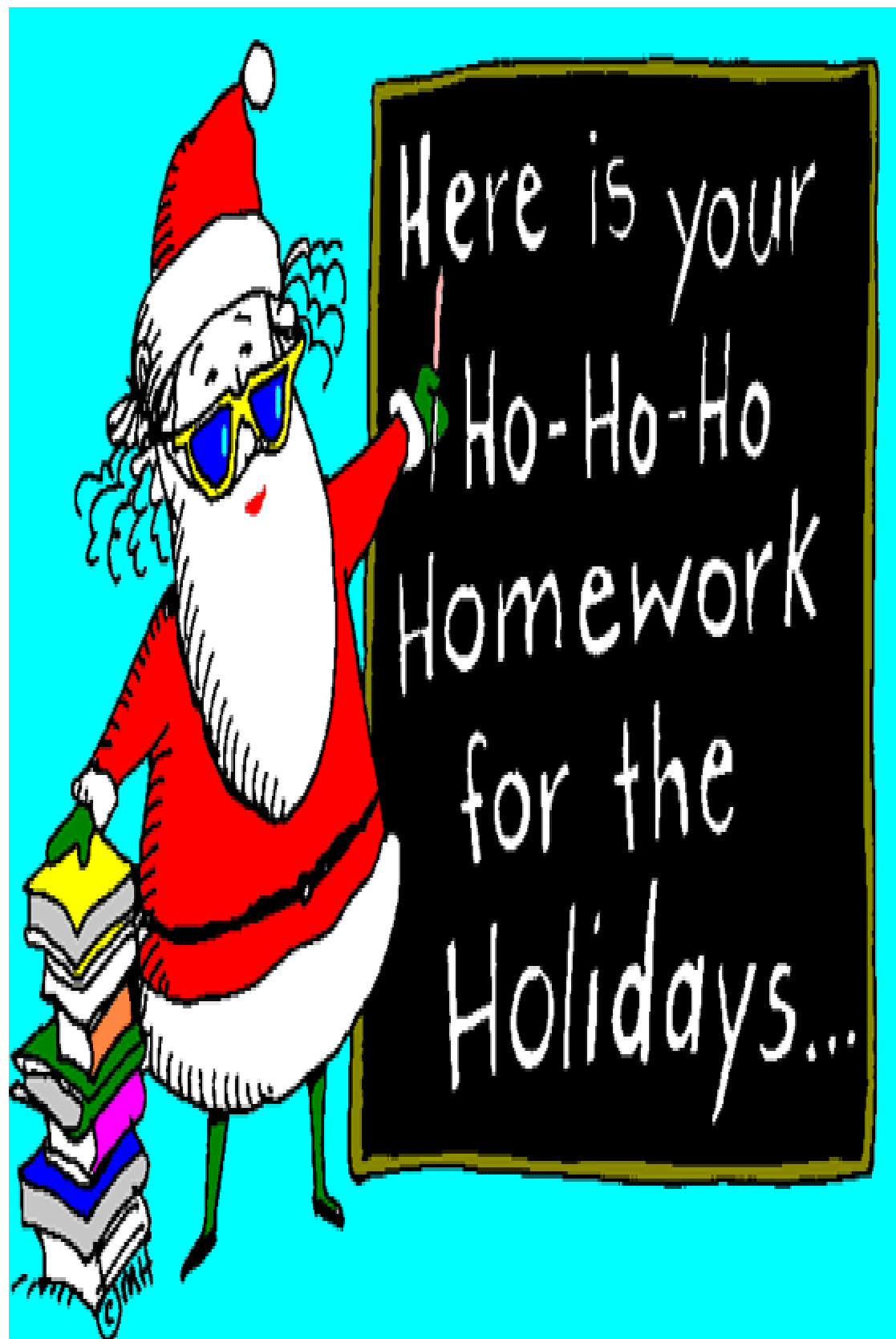
1. The first psychological laboratory was established by _____.
2. The school of Structuralism was established by _____.
3. The behaviourist school of psychology was founded by_____.
4. The term _____ describes the key idea of psychoanalysis.
5. Define cognition.
6. What is introspective method?
7. What is Psychology?
8. _____ developed Psychoanalysis.
9. The word 'psychology' is derived from the Greek word _____meaning 'mind' and ' _____ meaning 'study of'.
- 10.The humanistic approach to psychology was developed mainly by _____.

Part B (2 Marks)

11. Is there any difference between mind and brain? comment.
12. Describe humanistic perspective on human behaviour?
13. How is Psychology used in everyday life? Discuss.

Part C(4 marks each)

14. Give a brief account of development of psychology in India.
15. Define Psychology and also explain its scientific nature.
16. Human behaviour is a function of the attributes of the person and the environment. Comment.



Here is your
Ho-Ho-Ho
Homework
for the
Holidays...

ACCOUNTANCY

XI

(Introduction to Accounting)

Short Answer Type Questions

(Delhi 2011)

1. Explain the meaning of Accounting.
2. What is the process of Accounting?
3. Define Book Keeping. What is the function of Book Keeping? (KVS 2003, 2006)
4. What is the difference between Book Keeping and Accounting?
5. Discuss briefly the types of Accounting Information.
6. Why the following parties are interested in Accounting Information?
(a) Investors (b) Government (MSE Chandigarh 2011)
7. State what is the end-product of Financial Accounting. (MSE Chandigarh 2008)
[Hint: Financial Statements, i.e., (i) Income Statement, (ii) Balance Sheet.]
8. What are the attributes (features) of Accounting? (MSE Chandigarh 2006)
9. What do you mean by Accounting? What are its main objectives? (KVS 2007)
10. What are the advantages of Accounting? (MSE Chandigarh 2003; Delhi 2004)
11. Explain the primary objectives of Accounting. (MSE Chandigarh 2009)
12. Explain any four objectives of Accounting. (KVS 2012)
13. Define Accounting. Explain any two limitations of Accounting. (MSE Chandigarh 2007; KVS 2008)
14. Accounting provides information about the profitability and financial soundness of the concern. In addition, it provides various other valuable information also. However, accounting has certain limitations. Explain any three of such limitations. (KVS 2016)
15. What is Accounting? Explain four of its functions. (Delhi 2001, 2002)
16. What do you mean by Accounting? Explain in brief any four advantages of Accounting. (Delhi 2010)
17. What do you mean by Financial Accounting? Explain the four main limitations of Financial Accounting. (Delhi 2004)
18. Accounting provides information about the profitability and financial soundness of a concern. In addition, it provides various other valuable information also. However, accounting has certain limitations. Explain any three of such limitations. (KVS 2015)
9. What do you mean by Financial Accounting? Explain its one main function. (Delhi 2008)
0. Write a short note on Double Entry System of Accounting.

ACCOUNTING TERMS

Short Answer Type Questions

1. Distinguish between Loss and Expense.
 2. What are Vouchers?
 3. Distinguish between Opening Stock and Closing Stock.
 4. Explain the meaning of **any three** of the following terms:
(i) Assets; (ii) Capital; (iii) Goods; (iv) Drawings and (v) Debtors. (Delhi 2007)
 5. Explain the following terms:
(i) Revenue; (ii) Debtors; (iii) Fictitious Assets and (iv) Working Capital. (MSE Chandigarh 2007)
- [Hint: The difference between the Current Assets and Current Liabilities is known as Working Capital.]
6. Explain the meaning of **any three** of the following terms:
(i) Liability; (ii) Stock; (iii) Business Transaction and (iv) Drawings. (Delhi 2008)
 7. Explain and give example of each of the following accounting terms:
(i) Expenses; (ii) Drawings and (iii) Gain. (KVS 2010)
 8. Define the following basic accounting terms with example:
(i) Revenue; (ii) Drawings and (iii) Profit. (Delhi 2010)
 9. Explain the following terms with example:
(i) Sales and (ii) Cost. (Delhi 2011)
 10. Write a note on types of assets with one example of each. (KVS 2015)

PRACTICAL PROBLEM

1. Mr. Gopal started business for buying and selling of readymade garments with ₹ 8,00,000 as an initial investment. Out of this he paid ₹ 4,00,000 for the purchase of garments and ₹ 50,000 for furniture and ₹ 50,000 for computers and the remaining amount was deposited into the bank. He sold some of the ladies and kids garments for ₹ 3,00,000 for cash and some garments for ₹ 1,50,000 on credit to Mr. Rajesh.

Subsequently, he bought men's garments of ₹ 2,00,000 from Mr. Satish. In the first week of the next month, a fire broke out in his office and stock of garments worth ₹ 1,00,000 was destroyed. Later on, some garments which cost ₹ 1,20,000 were sold for ₹ 1,30,000. Expenses paid during the same period were ₹ 15,000. Mr. Gopal withdrew ₹ 20,000 from business for his domestic use.

From the above, answer the following:

- (i) What is the amount of capital with which Mr. Gopal started the business?
 - (ii) What fixed assets did he buy?
 - (iii) What is the value of the goods purchased?
 - (iv) Who is the creditor and state the amount payable to him?
 - (v) Who is the debtor and what is the amount receivable from him?
 - (vi) What is the total amount of expenses?
 - (vii) What is the amount of drawings of Mr. Gopal?
- (i) ₹ 8,00,000