



St. Mary's School, Dwarka
Holiday Homework
Std. XI
Week 2
Worksheet 2

Subject: English

General Instructions: Attempt questions based on specific instructions for each section.

SECTION A- Reading

Q1. Read the following passage carefully.

1. In a country where, as per scriptures, Gods reside in places where a woman is worshipped, female foeticide is an ironic but sad truth. It has become a grave social issue across the country. Female foetuses are killed in their mother's wombs through Medical Termination of Pregnancy (MTP) by a ruthless society that prefers sons over daughters.
2. In many traditional, conservative families, a girl is considered a liability or burden, due to the evil practice of demanding dowry at the time of marriage. Often, she is also subjected to harassment, molestation, and physical abuse, prompting the parents to fear the prospect of rearing, educating, protecting or marrying off their daughters. Daily newspapers are full of the news about murder, acid-throwing incidents, molestation, physical abuse and burning, which accentuate the apprehension of families regarding a girl child. All these things, in turn, encourage the practice of aborting the foetus in case it is a female.
3. There is an increasing trend of the misuse of the pre-natal technologies which are used to determine pre-birth deficiencies or infirmities in a child. Aiding the massacre of unborn girls are the mushrooming ultrasound clinics that connive with parents in carrying out gender-determination tests and terminating the child in the womb, it is found out to be a girl. Such unscrupulous people deserve the strictest punishment but they are able to escape the law in most cases due to inadequacies in the law enforcement mechanism.
4. Traditional, conservative families are still unable to shake off their longing for a son as they tend to believe that only sons can carry their family names forward and also look after them in their old age. They also subscribe to the notion that only when funeral rites are performed by a son that the deceased attain salvation.
5. According to 2011 Census, the girl boy ratio was, 914 girls for every 1.000 boys in the age group 0-6 years. Contrary to 927 for every 1.000 boys in the 2001 Census. Except for the improvement in the gender ratio in Kerala, Lakshadweep and Pondicherry all other states have reported a decrease in the number of girls, notable among are Maharashtra, Punjab, Haryana, Himachal Pradesh, Delhi, Chandigarh and Gujarat.
6. But gradually, the winds of change have started blowing as girls are doing exceptionally well in various professions, bringing a sense of pride and recognition to their families, cities and nation. They have broken all barriers and excelled in all fields, be it sports, armed forces, business or politics.
7. Consequently, social attitudes towards women are changing, leading to their empowerment, still we cannot say that it has put an end to the practice of female foeticide as it will take time to change the mindsets to percolate down to all towns and cities of the country.

On the basis of your understanding of the passage, answer the following questions. (1x5 =5)

1. In many conservative families, a girl is considered a liability or burden..... .

- (i) as they do not earn money.
- (ii) due to their inferior strength.
- (iii) due to the evil practice of dowry.
- (iv) due to their lack of education.

2. The main cause of the low status of women in the society is:

- (i) greater economic stability in males
- (ii) their inability to earn money
- (iii) low strength of women
- (iv) poverty and lack of education

3. State any two beliefs that the Indian families hold on to regarding the birth of a male child.

4. To put a stop to female foeticide cases, we need to first educate:

- (i) female members
- (ii) male members
- (iii) parents
- (iv) elderly people

5. The passage largely deals with the ugly situation of:

- (i) kidnapping
- (ii) practice of dowry
- (iii) child marriage
- (iv) female foeticide

SECTION B- Literature

Answer the following questions in 20 to 30 words.

(2x2=4)

Q2. Why did the narrator's grandmother give the impression of 'a winter landscape in the mountain'?

Q3. Why do you think Mrs. Dorling, knowingly refused to recognize the narrator when she went to meet her after years?

Answer the following questions in 60 to 80 words.

(3x2=6)

Q4 "Every family has a crazy streak in it somewhere, and my cousin Mourad was considered the natural descendant of the crazy streak in our tribe." Bring out some notable traits of Mourad's character with reference to the above statement.

Q5. The narrator had two different experiences when she visited Maroni Street. Explain.

SECTION C—Grammar

Q6. This dress suits her style. She ___definitely like it!

(1)

- 1. can
- 2. could
- 3. will
- 4. may

Q7. Report the dialogue between two friends, by completing the sentence.

(1)

Mike: What are you doing here Liz? I haven't seen you since June.

Liz: I've just come back from my holiday in Ireland.

Mike asked Liz what she was doing there and he said that he had not seen her since June.

Liz explained that _____.

SECTION D- Writing

Q8. You are AP Raman of 22/14 Arabi Tank Lane, Trichy, Tamil Nadu. Your grandmother, Fatima Bano, has been missing from your home for the last 5 days. Draft a suitable advertisement with all details to be published in a local daily in the classified column.

(2)

Q9. Sports and games make us fit, active and social. Write a speech on the 'Importance of Sports and Games'. You are Karan/Karuna the Sports Captain of your school.

(4)

Q10. The poem 'The Photograph' is a tribute by Shirley Toulson for her mother. She fondly remembers her laugh and misses her deeply. Design a 'Thank you card' with a note for your mother to show your gratitude and love for her.

(2)

Subject: Mathematics

Q.1) Let $T = \{x: \frac{x+5}{x-7} - 5 = \frac{4x-40}{13-x}\}$. Is T an empty set? Justify your answer. (2)

Q.2) Find the values of all five trigonometric functions if $\operatorname{cosec} \theta = \frac{-2}{\sqrt{3}}$ and θ lies in fourth quadrant. (2)

Q.3) Evaluate $\sum_{n=1}^{13}(i^n + i^{n+1})$, where $n \in \mathbb{N}$. (2)

Q.4) If $x - iy = \sqrt{\frac{a-ib}{c+id}}$, prove that $(x^2 + y^2)^2 = \frac{a^2 + b^2}{c^2 + d^2}$. (2)

Q.5) Show that if $A \subset B$, then $C - B \subset C - A$. (2)

Q.6) Find the degree measure corresponding to the following radian measures: (3)

(i) $\frac{17\pi}{6}$ (ii) 2.5 radians (iii) $\frac{11\pi}{3}$

Q.7) Prove that $\tan 4x = \frac{4 \tan x (1 - \tan^2 x)}{1 - 6 \tan^2 x + \tan^4 x}$. (3)

Q.8) Write the complex number $z = \frac{i-1}{\cos \frac{\pi}{3} + i \sin \frac{\pi}{3}}$ in polar form. (3)

Q.9) Express the following numbers in the form of $a + ib$: (3)

(i) $\frac{(\sqrt{2}+i\sqrt{3})+(\sqrt{2}-i\sqrt{3})}{(\sqrt{3}+i\sqrt{2})+(\sqrt{3}-i\sqrt{2})}$ (ii) $(2+3i)(2-3i)(1+i)^2$.

Q.10) Find the general solution of the trigonometric equation $\tan x + \tan 2x + \tan 3x = 0$. (3)

Subject: Computer Science

Q1 Which of the following identifier names are invalid and why?

$\frac{1}{2} \times 8 = 4$

- (a) Serial_no.
- (b) 1st_Room
- (c) Hundred\$
- (d) Total Marks
- (e) Total_Marks
- (f) total-Marks
- (g) _Percentage
- (h) True

Q2. Write the corresponding Python assignment statements:

$1 \times 5 = 5$

- (a) Assign 10 to variable length and 20 to variable breadth.
- (b) Assign the average of values of variable length and breadth to a variable sum.
- (c) Assign a list containing strings 'Paper', 'Gel Pen', and 'Eraser' to a variable stationery.
- (d) Assign the strings 'Mohandas', 'Karamchand', and 'Gandhi' to variables first, middle and last.
- (e) Assign the concatenated value of string variables first, middle and last to variable fullname. Make sure to incorporate blank spaces appropriately between different parts of names.

Q3 How many ways are there in Python to represent an integer literal?

2

Q4 Write Python programs to do the following:

$2 \times 5 = 10$

- a) to calculate the area of a triangle
- b) to solve the quadratic equation
- c) to swap two variables without using the third variable
- d) to convert kilometers to miles
- e) to convert the temperature in celsius to fahrenheit

Q5 What is an expression in Python and how is it different from a statement? Give an example to elaborate.

2

Q6 What is the order of precedence in python? Give an example to elaborate.

2

Q7 From the following, find out which assignment statement will produce an error. State reason(s) too.

$$\frac{1}{2} \times 8 = 4$$

(a) $y = 78$

(b) $y = 037$

(c) $z = 0o98$

(d) $56thnumber = 3300$

(e) $length = 450.17$

(f) $!Taylor = 'Instant'$

(g) $this\ variable = 87.E02$

(h) $float = .17E - 03$

Q8 How will Python evaluate the following expression?

$$(1 \times 4 = 4)$$

(i) $20 + 30 * 40$

(ii) $20 - 30 + 40$

(iii) $(20 + 30) * 40$

(iv) $15.0 / 4 + (8 + 3.0)$

Q9 Write an algorithm to double a number in two different ways: (i) $n+n$, (ii) $2x$

Q10 Draw a flowchart to calculate the area and the circumference of circles.

Subject: Economics

- Q1. Write a short note on “What to produce” . (2)
- Q2. Why does law of demand apply? (2)
- Q3. Differentiate between change in demand and change in quantity demanded. (2)
- Q4. Why is an Indifference curve generally , convex to the origin? (2)
- Q5. Explain why an Indifference curve has a negative slope. (2)
- Q6. Why do Indifference curves not intersect each other? (3)
- Q7. 'Higher indifference curve represents higher level of satisfaction to the consumer'. Explain the statement, also state the underlying assumption related to this property of indifference curve. (3)
- Q8. “Law of diminishing marginal utility will operate even if consumption takes place in intervals.” Defend or refute. (3)
- Q9. How is the law of diminishing marginal utility applied with regard to education/ knowledge? (3)
- Q10. Is the demand for the following elastic, moderate elastic, inelastic? Give reason. (3)
1. Demand for petrol
 2. Demand for textbooks
 3. Demand for cars
 4. Demand for milk

Subject: History

- | | |
|---|---|
| 1. When did the Mongol Empire exist? | 1 |
| 2. Who was Genghis Khan and what was his role in the Mongol Empire? | 1 |
| 3. How did the Mongol Empire expand and conquer such a large territory? | 2 |
| 4. What were the major achievements and contributions of the Mongol Empire? | 2 |
| 5. How did the Mongol Empire govern its vast territories? | 2 |
| 6. What were the major impacts of the Mongol Empire on the regions it conquered? | 3 |
| 7. How did the Mongol Empire decline and eventually fall? | 3 |
| 8. Explain the legacy of Mongols. | 3 |
| 9. Describe in your own words the conquest of northern China by Genghis Khan. | 3 |
| 10. What was the postal system in the Mongol Empire, and how did it contribute to the efficient communication and governance within the empire? | 5 |

Subject: Geography

- | | |
|--|---|
| Q1. What is the importance of Physical Geography? | 5 |
| Q2. Physical and human factors both are dynamic not static. Explain. | 5 |
| Q3. Explain different branches of Physical geography. | 5 |
| Q4. What matters are studied under Human Geography? | 5 |
| Q5. You observe every day in your surroundings that there is variation in natural as well as cultural phenomena. All the trees are not of the same variety. All the birds and animals you see, are different. All these different elements are found on the earth. Can you now argue that geography is the study of “areal differentiation”? | 5 |

Subject: Psychology

Q1. Huminitic psychology is developed by _____.	1
Q2. Define hypothesis.	1
Q3. What do you mean by stimulus and response?	2
Q4. Where and how community psychologist work?	2
Q5. What is reliability?	2
Q6. What is quasi experiment?	2
Q7. Differentiate between:	3
i. Psychologist and Psychiatrist	
ii. Counsellor and a clinical psychologist	
Q8. What is the correlational technique and what does it tell researchers about relationships?	4
Q9. What are the ethical concerns when conducting research with people and animal?	4
Q10. What were the contribution of Skinner, Maslow and Rogers?	4

Subject: Political Science

Q.1	What is the origin of the word 'Politics'?	1
Q.2	Define the term Liberty.	1
Q.3	What do you understand by National Liberty?	1
Q.4	What do you understand by equality before law?	2
Q.5	Explain two types of Liberty.	2
Q.6	Political Science is a Science. Give reasons.	2
Q.7	Discuss pre-conditions which are essential for an individual to enjoy Liberty.	2
Q.8	Explain the relationship between political and economic liberty.	4
Q.9	Explain main dimensions of equality.	4
Q.10	Describe John Stuart Mill's views in the defense of freedom of expression including freedom of thought and discussion.	6

Subject: Physical Education

- Q. 1. How many verticals are there in Khelo-India Programme? 1
(a) Ten (b) Eleven
(c) Twelve (d) Thirteen
- Q. 2. The Ministry of Youth Affairs and Sports, Govt. of India launched the Khelo India Programme in 1
(a) 2013-2014 (b) 2014-2015
(c) 2016-2017 (d) 2017-2018
- Q. 3. The maximum duration of 'Long Term Athlete Development Programme is..... 1
(a) 4 Years (b) 6 Years
(c) 8 Years (d) 12 Years
- Q. 4. The values of Olympism are.... 1
(a) Excellence (b) Friendship
(c) Respect (d) All of the above
- Q. 5. Enlist various careers in the field of Physical Education. 5
- Q. 6. Elaborate the professional courses in Physical Education available in India. 5
- Q. 7. Explain the professional courses available in the field of sports administration. 5
- Q. 8. List careers available in communication media and elaborate any one. 5
- Q. 9. What are the objectives of Paralympic games? 5
- Q. 10. What do you mean by Special Olympics? 5