

OPEN MINDS - A BIRLA SCHOOL, KANKARBAGH

NAME : _____

DATE : _____

SUBJECT : - SCIENCE

GRADE - 7

HOME ASSIGNMENT

1. Objective type questions:-

- a. The average weather taken over a long period of time is called _____
- b. _____ is the measure of moisture.
- c. _____ can vary over very short periods of time.
- d. The tropical rainforests get plenty of _____.
- e. _____ of an elephant can tear the _____ of trees.

2. Match column I with column II:

Column I

- a. Weather
- b. Climate
- c. Humidity
- d. Equal length of day and night
- e. Extremely cold conditions
- f. Striped carnivore in tropical rainforest

Column II

- i. Changer over a long time
- ii. Tropical region
- iii. Polar region
- iv. Tiger
- v. Changes rapidly
- vi. A feature of weather

3. Short answer type questions:-

- a. If you were to prepare the weather data for a week ,what factors would you include?

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b. Write two common adaptive features of a polar bear which help in keeping it warm.

4. Long answer type questions:-

a. Why do we feel warm in a hall full of people?

b. How do animals survive in different climatic conditions?

OPEN MINDS - A BIRLA SCHOOL, KANKARBAGH

NAME : _____

DATE : _____

SUBJECT : - SST

GRADE - 7

HOME ASSIGNMENT

1. Define retailer.

2. What is a wholesale market?

3. Which invader took away the Peacock Throne and Kohinoor diamond from India?

4. Who was the founder of Hyderabad?

5. Name the following:

- i. Tropical grassland of East Africa _____
- ii. Tropical grassland of Brazil _____
- iii. Tropical grassland of Venezuela _____
- iv. Temperate grassland of Argentina _____
- v. Temperate grassland of North America _____
- vi. Temperate grassland of South Africa _____
- vii. Temperate grassland of Australia _____
- viii. One important tree of Coniferous Forest _____
- ix. One important tree of Temperate Evergreen Forest _____
- x. Temperate grassland of Central Asia _____

Teacher's Signature :

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6. Locate the following:

- i. Prairie
- ii. Veld
- iii. Sahara Desert
- iv. Rocky Mountain
- v. Great Lakes of America
- vi. Lake Winnipeg
- vii. Drakensberg Mountains
- viii. Downs
- ix. Steppes
- x. Savannah

OPEN MINDS - A BIRLA SCHOOL, KANKARBAGH

NAME : _____

DATE : _____

SUBJECT : - ELA

GRADE - 7

HOME ASSIGNMENT

Fill in the blanks using suitable conjunctions:

1. This is a small interesting story.
2. Manu ____ Anu helps the poor.
3. I was a child, I lived in Dubai.
4. Make hay the sun shines.
5. We will visit Paris Rome during the summer.
6. Let us wait here the rain stops.
7. he worked hard he failed.
8. I regard my mother my best friend.
9. I was suffering from fever I couldn't attend the class.
10. My sister is not intelligent my brother.
11. He is tall his father.
12. Hard work ____ determination is the key to success.

Fill in the blanks with correct conjunctions:

1. It was a difficult exam, ____ I passed it.
2. She worked hard ____ made a lot of money.
3. He looks very serious ____ he is not.
4. I was against the new project, ____ I accepted to help.
5. He was late ____ wasn't allowed to get in.
6. It was very expensive, ____ I bought it.
7. She was very poor, ____ she never asked for help.
8. He wanted to eat sushi for dinner, ____ he couldn't find a Japanese restaurant.

Teacher's Signature :

Parent's Signature :

9. He stopped talking _____ lit a cigarette.
10. I wanted to attend the meeting, _____ I couldn't because I was very ill.
11. I need to work hard _____ I can pass the exam.
12. _____ he was the best candidate, he didn't win the elections.

Read the following passage and answer the questions that follow :

Born in a village, called Bikrampur, on November 30, 1858, Sir Jagdish Chandra Bose showed great inclination towards plants and animals. He began his education in a Bengali village school and later joined St. Xavier's School in Calcutta. In college he studied physics but had a special inclination towards Botany. After graduation, he went to England where he joined a medical college. Soon, however, he left it to join Christ Church College, Cambridge to master in natural science. He was required to learn Latin in order to qualify. He had a unique quality of perfecting the thing he took up once. He returned to India in 1882 after getting a distinguished academic experience in London, England. As a professor of physics in presidency college, Calcutta, he found Indians getting one-third of the salary as compared to Britishers. He started a Satyagraha and won the battle after three years. Soon he began his research work by setting up his own laboratory. He worked on experiments in electricity and discovered the possibility of transmitting electric telegraphic signals. He also worked on the response of plants and animals to stimuli. The discovery of the response of the nonliving became the basis for the development of radar. Astonishing facts like trees sleep at midnight and wake up at 8 a.m. and that liquor has an intoxicating effect on plants are some of the famous discoveries of Jagdish Chandra Bose.

1. Jagdish Chandra Bose was born _____
 - (i) on November 30, 1858
 - (ii) on December 30, 1758
 - (iii) on October, 30 1658
2. In college he studied physics but had a special inclination towards _____
 - (i) Zoology
 - (ii) Chemistry
 - (iii) Botany
3. He attained mastery in _____ in Christ church college, Cambridge.
 - (i) natural science
 - (ii) arts
 - (iii) music
4. He worked as a professor of physics in _____
 - (i) St. Xavier's college, Calcutta
 - (ii) Presidency college, Calcutta
 - (iii) Presidency college, Chennai

5. He worked on experiments in electricity and discovered the possibility of ____
- (i) transmitting radio waves (ii) transmitting electric traffic signals
- (iii) transmitting electric telegraphic signals

2. Read the following passage and answer the questions that follow :

Vitamin C is an essential ingredient for human beings. It is even necessary for the synthesis of inter cellular cement i.e. "collagen" which is responsible for keeping many cells of the human body together. Vitamin C is required for the dentine formation in the teeth. It also helps in the absorption of iron from the body. The richest source of vitamin C is Amla, i.e. *Emblica Officinalis*. The other sources are lemons, limes, oranges, papayas, cabbages, green peas and tomatoes. If cooked above 70°C vitamin C is destroyed. Deficiency of vitamin C causes scurvy. In this disease, gums are swollen or bleeding, bones are weak and readily fractured, delayed wound healing, etc. Each adult requires 75 mg per day, infant 30 mg/day, pregnant woman 100 mg/day. Doctors recommended vitamin C for treatment of infections, healing of ulcers, burns and quick healing of fractures. Long term use of tablets of vitamin C has its side effects like the reformation of oxalates, kidney stones, diarrhoea, damage to outer layer of teeth. During World War II, amla was one of the main ingredient to save fighting forces from scurvy disease. Vitamin C in the form of amla is best for health.

1. Which is responsible for keeping many cells of the human body together ?
- (i) Hydrogen (ii) Nitrogen (iii) collagen
2. Which is the richest source of vitamin C ?
- (i) amla (ii) brinjal (iii) coconut
3. Vitamin C is destroyed, if it is cooked _____
- (i) below 70°C (ii) above 70°C (iii) above 90°C
4. How many milligrams of vitamin C require for infants per day ?
- (i) 30 mg per day (ii) 50 mg per day (iii) 70 mg per day
5. What is the scientific name of amla ?
- (i) *Hibiscus Rasa Synencis* (ii) *Hibiscus Britanica* (iii) *Emblica officinalis*

OPEN MINDS - A BIRLA SCHOOL, KANKARBAGH

NAME : _____

DATE : _____

SUBJECT : - MATHEMATICS

GRADE - 7

HOME ASSIGNMENT - 2

Factorise :

1. $2a^2 + 3a$

2. $5x + 20$

3. $9b - 12b$

4. $64 - x^2$

5. $4x^2 - 1$

6. $x^2 - 4x + 4$

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7. $Y^2 - 6x + 9$

8. $4a^2 - ab^2$

9. $16x^2 - 24ab$

10. $10y^3 - 15y^2$

11. $9x - 12x^2$

12. $x^2(a - b) - y^2(a - b) + z^2(a - b)$

13. $(x + y)(a + b) + (x - y)(a + b)$

14. $24x^3 - 36x^2y$

15. $ab^2 + (a-1)b - 1$

16. $y^2 - xy(1-x) - x^3$

17. $8a^2 - 4$

18. $16 - 25y^2$

19. $36x^3y - 60x^2y^3z$

20. $9x - 12x^2$

21. $x^2 + 6ax + 9a^2$

22. $1 - 6x + 9x^2$

23. $2x^3b^2 - 4x^5b^4$

24. $15x^4y^3 - 20x^3y$