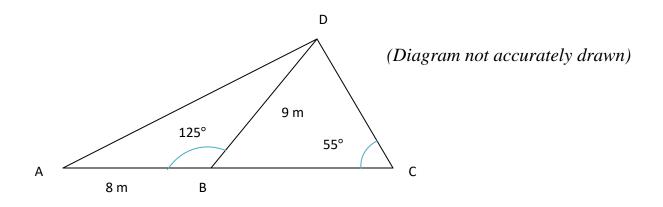
INTERNATIONAL PRIME SCHOOL

Worksheet: Week-5; Sub: Mathematics

Class: VIII

- 1. In $\triangle ABC$, a = 5 cm, b = 7 cm, and $\angle C = 60^{\circ}$. Find c.
- 2. In $\triangle GHI$, g = 9cm, i = 7 cm and $\angle H = 30^{\circ}$. Find h.
- 3. In $\triangle MNO$, m = 4.2 cm, n = 5.8 cm and $\angle O = 141.4^{\circ}$. Find o.
- 4. In ΔXYZ , x = 7 m, y = 8 m and z = 9 m. Find the unknown angles.
- 5. In $\triangle ABC$, AB=6.7 cm, BC=3.8 cm and AC=5.3 cm. Find the size of the smallest angle.
- 6. In ΔPQR , PQ=7.8~cm, QR=9.1~cm and PR=4.9~cm. Find the size of the largest angle.
- 7. In the figure, the point B lies on AC such that AB = 8 m, BD = 9 m, $\angle ABD = 125^{\circ}$ and $\angle BCD = 55^{\circ}$.



Find

- i) the length of CD,
- ii) the length of AD.

8. Simplify:

i)
$$\frac{a^2 - 4b^2}{a^2 - 9x^2} \times \frac{a - 3x}{a + 2b}$$

ii)
$$\frac{x^3 - y^3}{x^2 - y^2} \div \frac{x^2 + xy + y^2}{x^2 + 2xy + y^2}$$

iii)
$$\frac{3a^2 - 6ab}{x^2 - y^2} \times \frac{a + 2b}{3a^2 - 12b^2} \times \frac{x + y}{a}$$

iv)
$$\frac{x^2 - 5x + 6}{x^2 - 4} \times \frac{x^3 + 8}{x^2 - 9}$$

v)
$$\frac{a^3+b^3}{a^3-b^3} \div \frac{a^2-ab+b^2}{a^2+ab+b^2}$$

vi)
$$\frac{a^2-9}{a^2-4} \times \frac{a+2}{a-3}$$

vii)
$$\frac{x^2 + 7xy + 12y^2}{x^2 - y^2} \div \frac{x + 4y}{x - y}$$

viii)
$$\frac{a^2x^2 - 4a^2}{x^2 - 9} \times \frac{x + 3}{ax + 2a}$$

ix)
$$\frac{5a^2 - 25ab}{a^2 - 6ab + 5b^2} \times \frac{a^2 - b^2}{a^2 + ab}$$

$$(x) \frac{x^3 + 8a^3}{x^2 + 2ax + 4a^2} \div \frac{x^2 - 2ax + 4a^2}{x^3 - 8a^3}$$

xi)
$$\frac{a^3+b^3}{a^2-b^2} \times \frac{a+b}{a-b} \times \frac{a^2+ab}{(a+b)^2}$$

xii)
$$\frac{a^2+3a}{a^2+4a+3} \times \frac{a^2-2a-3}{a^2-9}$$

xiii)
$$\frac{x^2 + 5x + 6}{x^2 - 4} \div \frac{x^2 + 3x}{x - 2}$$

$$xiv) \frac{x^2-4x+3}{x^2+x-6} \div \frac{x^2+3x-4}{x^2+7x+12}$$

$$(xv) \frac{x^2 - 2x - 15}{x^2 + x - 12} \times \frac{x^2 + 3x - 18}{x^2 + x - 30}$$

xvi)
$$\frac{a(a^2-b^2)}{a^2+4ab+3b^2} \div \frac{a^2-ab}{a+3b}$$

xvii)
$$\frac{x^2 + x(a+b) + ab}{x^2 + x(a+b) + bc} \times \frac{x^2 + x(a+c) + ac}{x^2 + 2ax + a^2}$$

xviii)
$$\frac{x(a^2-b^2)}{x^3+y^3} \times \frac{x^2-xy+y^2}{x^2a-xa^2} \times \frac{x^2-a^2}{2b} \times \frac{2ab}{a^2-b^2}$$

INTERNATIONAL PRIME SCHOOL

Class: VIII, Sub: ICT

Worksheet: 05

- 1. Explain why CAPTCHA tests work.
- 2. Write short note on Pharming and Phishing.
- 3. Explain "Collaborative Working" with benefits.
- 4. Write short note on Cyberbullying.
- 5. Write short notes.
 - (a) Session cookies
 - (b) President cookies
 - (c) Third-Party cookies
- 6. State what is meant by the term 'Cloud'.

Week 5

Geography

Class VIII

Ch: 17

a. What is drainage basin?

Drainage basin is the area of a river catchment.

b. What is drainage density?

Drainage density is the number of river in a particular area.

c. Write the formula of drainage density.

Area

Number of river

d. What is discharge?

Discharge is the amount of water flow in a particular time period.

e. What is hydrograph?

Hydrograph is the graph to predict the flood in a drainage basin.

f. What is lag time?

In hydrograph, lag time is the difference between time in maximum flow and minimum flow.

g. How many sections are there in river?

There are two sections of a river.

h. What are they?

Upstream river and downstream river.

Diagram:

Drainage basin

Cross-section of river course

Graph:

Draw a hydrograph and label it

Week 5

History

Class VIII

Ch: 16

Multiple Choice Answers:

(Answers are marked in bold form)

- (a) One reason the Chinese Communists were able to gain control of China was the support of the
- (i) Peasants (ii) landed elite (iii) foreigners (iv) warlords
- (b) The Cultural Revolution in China was Mao Zedong's attempt to
- (i) renew the ideas and enthusiasm of the Communist revolution
- (ii) increase the industrial output of China
- (iii) promote artistic exchanges with the United States
- (iv) encourage foreign investment in China
- (c) The Long March is significant in Chinese history because it
- (i) ended Japanese occupation of China
- (ii) reinforced the concept of the Mandate of Heaven
- (iii) caused the Boxer Rebellion
- (iv) established Mao Zedong as a revolutionary leader
- (d) One way in which the Great Leap Forward and the Four Modernizations are similar is that each was an attempt to
 - i. increase farm and factory output
 - ii. develop a democratic government
- iii. strengthen economic ties with communist neighbors
- iv. reduce the gap between rich and poor
- (e) In China, the Revolution of 1911 and the demonstrations in Tiananmen Square in 1989 were similar in that each event
 - i. succeeded in overthrowing the existing government
 - ii. resulted in foreign military intervention
- iii. sought to bring about democratic reforms
- iv. made land reform a major goal
- (f) The goal of Mao Zedong's policy known as the Great Leap Forward was to

- i. develop foreign export industries in China's coastal urban centers
- ii. eliminate state-owned industries in rural China
- iii. modernize China's economic system by dividing China into communes
- iv. introduce capitalism to the Chinese economy
- (g) By the late 1970s in China, the growing size of its population influenced the government's decision to
 - i. encourage people to migrate to other countries
 - ii. force families to work on communes
- iii. engage in wars to gain territory
- iv. institute a one-child policy
- (h) During China's Cultural Revolution, a major goal of the Red Guard was to
 - i. revive traditional loyalty to the emperor
 - ii. promote trade and free enterprise
- iii. enforce the teachings of Mao Zedong
- iv. encourage cooperation with the Soviet Union
- (i) In 1989, the government of China responded to the challenge of protests in Tiananmen Square by
 - i. halting trade with the West
 - ii. allowing democratic elections
- iii. sending in tanks and troops to end the demonstrations
- iv. calling for a special session of the United Nations Security Council
- (j) In 19th-century China, the Opium War resulted in
 - i. the control of Hong Kong being returned to China
 - ii. the removal of all British naval forces from China
- iii. an increase in European spheres of influence in China
- iv. the rejection of Buddhism by the Chinese people
- (k) The Cultural Revolution in China was Mao Zedong's attempt to
 - i. renew the ideas and enthusiasm of the Communist revolution
 - ii. increase the industrial output of China
- iii. promote artistic exchanges with the United States
- iv. encourage foreign investment in China

Week 5 Bangladesh Studies Class VIII

Broad Question:

a) What are the impacts of poor air quality in Dhaka city?

Short Questions:

- a) What is prediction?
- b) What is adjustment?
- c) What is risk assessment?

Table:

a) Make a table of some possible adjustment actions to natural hazards in Bangladesh.

Work sheet-5

Class-VIII

Biology

- 1. What is meant by vegetative propagation?
- 2. Write the differences between stolons and rhizome?
- 3. Write down about bulbs and corms.
- 4. Describe about tissue cultured.
- 5. Compare Between sexual reproduction and vegetative propagation.

বাংলা ভোমাত ক্ৰয়ক্তমা

- व्य , भागमी, प्रतिश, धानिक, देख्र ।
- था नाका नम्मा कव जायाजाष्ट्रिक, ट्याक, धनिके, छेड्लाउ भाषाकी
- वह) स्मारक स्टिन् छा त्या क्षेत्र की उ नक्षाम स्थाव
- भ) ज्याश्या लाभा ने नेहला जिलाम हाभा (अवह-भ) जिथि विद्रित वाकविनिविम (मव अवाग्रव धाराजाना वाकविन खाकविन विह्या
- आ ला नत्न, व्यक्षकाव पूरे नक कारमा. व्यक्षकाव नत्न, व्यक्षकाव पूरे नक कारमा.
- वा बह्मा निषाः
- क) छिलाम (मट्ट-
- न) उक्ती भैग्राहम कार्य

International frime Nchool Subject: Chemistry; Class: VIII 1. What is an acid? Give examples. 2. How can you test an acid ? 3. Classify acids with examples. 4. What is an alkali? Give examples. 5. Give a test for an alkali. 6. Classify alkalits with examplets. 7. What is neutralization reaction? 8. Write chemical equations for the reactions mat take place between i) NaOH and HU ii) KOH and HNO3 iii) NaOH and H2504 (V) Ca(OH), and HCl 9. What is PH? Name the colours that

Universal indicator gives in strong and week acid, strong alkali and weak alka