Class 9

SAMPLE QUESTIONS MATHEMATICS

Q1. Two circles intersect at two point B and C. Two line segment ABD and PBQ are drawn to intersect the circle at A, D and P, Q respectively. If the measure of $\angle ACP = 60°$, then find the measure of $\angle QCD$.

(A) $60°$

(B) $30°$

(C) $50°$

(D) $45°$

Q2. Study the following bar graph:

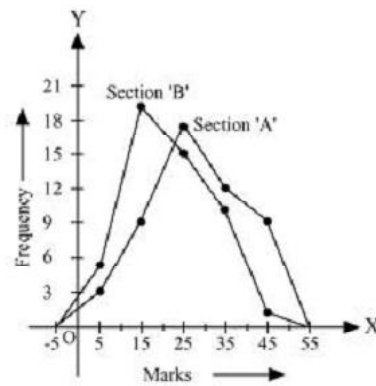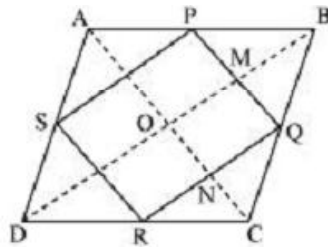**Find the mode of number of girls per thousand boys.**

(A)   800   (B)   900
(C)   950   (D)   1000

Q3. Which section shows better performance in   terms of good marks?

(A)   Section A   (B)   Section B
(C)   Both section A and B have same performance
(D)   Insufficient data

Q4. In the figure shown below ABCD is a parallelogram and P, Q, R, S are the mid point of AB, BC, CD and DA respectively. If ar(ABD) = 4 sq unit, then the area of (PQRS) is:

(A)   4 sq unit   (B)   2 sq unit
(C)   8sq unit   (D)   6 sq unit

Q5. **In the figure given below ABCD is a parallelogram and the circle is passing through D, C O. If DC is the diameter of the circle then find the measure of** $\angle BOC$.

(A)	$45°$	(B)	$60°$
(C)	$30°$	(D)	$90°$

S AMPLE Q UESTIONS P HYSICS

Q1. **What type of motion is represented by OK?**

(A) Uniform acceleration
(B) Uniform velocity
(C) Constant acceleration   (D) Negative acceleration

Q2. **A car is moving on a straight road with uniform acceleration. The following graph gives the speed of the car at various instants of time. Calculate the distance traveled by car in 50 sec.**

(A)	675 m	(B)	875 m
(C)	755 m	(D)	925 m

Q3. **The arrangement shown in the following figure represents one of the properties of sound. Identify the property of sound shown in the following figure:**

(A)	Echo	(B)	Reverberation
(C)	Reflection of sound	(D)	Sonic boom

Q4. **Which characteristic of musical sound enables us to distinguish between the sounds of same pitch and loudness produced by different musical instruments?**

(A)	Loudness	(B)	Pitch
(C)	Quality	(D)	Amplitude

Q5. **A bus is standing on bus stop. If the mass of bus is 500 kg then what is the momentum of bus?**

(A)	500 kg m/s	(B)	50 kg m/s
(C)	Zero		
(D)	Above information is insufficient		

S AMPLE Q UESTIONS C HEMISTRY

Q1. An experiment is being conducted to observe if the amount of water boiled affects the boiling point. Which one of the following is the independent variable in this experiment?

(A)   The boiling point.

(B)   The temperature of the stove.

(C)   The type of water.   (D)   The amount of water.

Q2. An element has 5 electrons in the outer most shell and it belongs to the third period of the periodic table. Identify the element.

(A)   Mg   (B)   Al

(C)   Si   (D)   P

Q3. The method shown below is used to manufacture washing soda on large scale. Name the process.
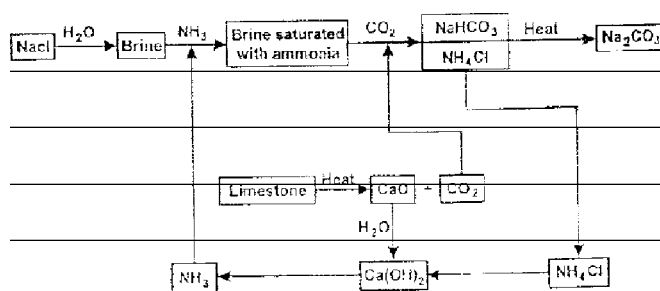
(A)   Solvay process   (B)   Habbers process

(C)   Hasenclavers process   (D)   Blast furnace process

Q4. The composition shown below is the composition of which one of the following compound?

CaO	**60-70%**
SiO_2	**20-25%**
Al_2O	**5-10%**
Fe_2O_3	**2-3%**

(A)   Lime   (B)   Cement

(C)   Plaster of paris   (D)   Glasss

Q5. Coloured glass is made by various metal oxides to the molten glass during the course of its manufacturing. Which metal oxide is used to manufacture blue colour glass?

(A) CoO_2 and CUO (B) CU_2O

(C) MnO_2 (D) Fe_3O_4

S AMPLE Q UESTIONS B IOLOGY

Q1. You may have seen that when some part of your body is injured, the blood flows out very fast initially, but after 2-3 minutes it coagulates to form a blood clot. Which component of the blood is responsible for this blood clotting?

(A) Red blood cells   (B) Blood platelets

(C) White blood cells   (D) Blood plasma

Q2. The following figure represents the primitive prokaryotic organism. Identify the organism.

(A)   Blue green algae
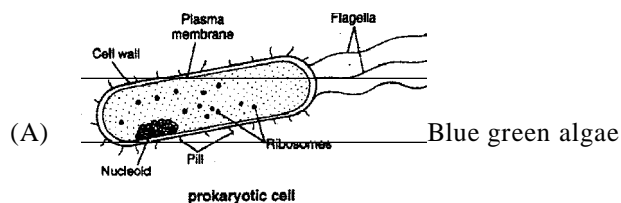
(B) Fungus

(C) Virus   (D) Diatoms

Q3. In the following graphic, hot magma rises from deep within the mantle of the earth. This magma exerts pressure that forces the continents to break and separate. What will happen as a result of this process?
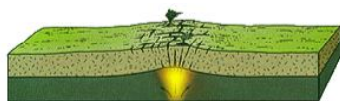
(A) Earthquake will occur   (B) Sea will be created.

    (C)   Mountain will be created at the point where the two continents get separated.

    (D)   Both A and B

Q4. Identify the organism whose alimentary canal is shown in the following figure:
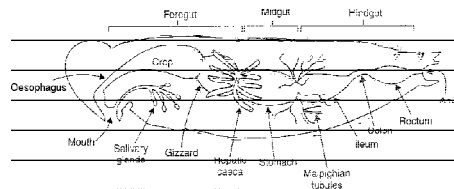
(A)	Cockroach	(B)	Ants
(C)	Fly	(D)	Grasshopper

Q5. Most of the aquatic animals respires through gills. The blood flowing through capillaries of gills absorb oxygen and gives out carbon dioxide to water. This respiration is known as :
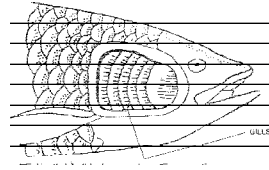
(A)	Cutaneous respiration	(B)	Branchial respiration
(C)	Tracheal respiration	(D)	Pulmonary respiration

SAMPLE QUESTIONS MENTAL ABILITY

Q1. Look at the following table:

Number	Value
(i) $3^3\,4^4$	6912
(ii) $5^2\,5^4$	0.04
(iii) $8^2 + 6^2 + 5^2$	5^3
(iv) $15^2 + 8^2$	18^2

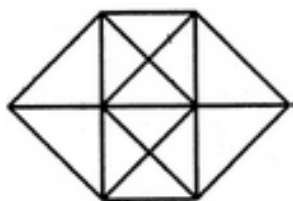**Which one of the following has incorrect value?**

(A)   (i)   (B)   (ii)
(C)   (iii)   (D)   (iv)

Q2. In a class of 50 students, 18 takes music, 26 takes art, and 2 takes both art and music. How many students in the class are not enrolled in either music or art?

(A)   4   (B)   6
(C)   8   (D)   12

Q3. Find the number of triangles in the following figure:

(A)   20   (B)   24
(C)   28   (D)   32

Q4. A fast bowler bowls at the speed of 144 km per hour. If the distance travelled by the bowl is 20 metre then find the time in seconds?

(A) $\dfrac{1}{3}$ (B) $\dfrac{1}{2}$

(C) $\dfrac{1}{4}$ (D)   None of the above

Q5. What comes in place of the question mark (?)

(8 x 1) (8 x 4) (8 x 9)   ?   (8 x 25)

(A)   (4 x 10)   (B)   (8 x 16)
(C)   (3 x 19)   (D)   (2 x 20)

S AMPLE Q UESTIONS E NGLISH

Q1. Fill in the blanks with suitable preposition.

My ties _____1_____ my native Chinese culture remain as strong as ever. I visit my relatives in Taiwan regularly _____2_____ every summer and have traveled throughout China. And to everyone's continuing surprise, I have yet to forget how to speak Mandarin. Nevertheless, twelve years in America has made its impressions _____3_____ me as well. I am as "American" as anyone my age. The songs I listen to, the sports I play, and the way I speak are all a reflection of that. In short, I am a combination of both East and West.

(A)   1- with, 2- almost, 3- upon
(B)   1- to, 2- in, 3- over, 4-with
(C)   1- for, 2- at, 3- over, 4-with
(D)   1- for, 2- in, 3- on, 4-with

Q2. Fill in the blanks with suitable conjunction.

Throughout my life, I have tried to be a well-balanced person. Growing up in the South, I had a hard time fighting the stereotypical image of a Chinese person. I was expected to be a math and science genius _____1_____ nothing more. As it turned out, I defied my detractors by excelling in English and history _____2_____ math and science. And over the years, I have continued to maintain my academic standards _____3_____I have always secured first position in my academics.

(A)   1- as, 2- if, 3- after, 4- when
(B)   1- and, 2- along with, 3- as
(C)   1- as, 2- as, 3- before, 4- when
(D)   All of the above

Q3. Fill in the blanks with suitable modals.

1.   Ajay said you didn't need to buy her anything for her birthday, but I really think you _____-at least get her a pair of shirt.
2.   Sakshi said she was really busy this week, but I think she

_____ show up at the party if she doesn't have to work overtime on Friday.

3. Experts agree that to make the most of your language learning experience, you _____ practice the language regularly and push yourself to maintain old vocabulary while acquiring new words and expressions.

(A) 1- should, 2-might, 3-can
(B) 1- should, 2-might, 3-must
(C) 1- should, 2-might, 3-must
(D) 1- should, 2-can, 3-must

Q4. Write the synonyms of the following words:

1. Repugnance, 2. Exasperated, 3. Convoluted

(A) 1. disliking, 2. irritated, 3. easy
(B) 1. disliking, 2. exhausted, 3. difficult
(C) 1. disliking, 2. irritated, 3. difficult
(D) All of the above

Q5. In the following question four sentences are given. Choose the grammatically correct sentence.

1. It is a month since she died.
2. It is a month when she died.
3. It is a month for she died.
4. He asked me how I was.

(A) 1 and 2   (B) 2 and 3
(C) 3 and 4   (D) 1 and 4

SAMPLE QUESTIONS GENERAL KNOWLEDGE

Q1. On which one of the following days International Women Day is celebrated?

(A) 5th March   (B) 6th March
(C) 7th March   (D) 8th March

Q2. Who discovered the radio active element Radium?

(A) Isaac Newton   (B) Marie Curie
(C) Mendleef   (D) None of the above

Q3. Which one of the following cricketers has the nick name Haryana Hurricane?

(A) Ajay Jadeja   (B) Kapil Dev
(C) Yuvraj Singh   (D) None of the above

Q4. In which one of the following years the Commonwealth Games was organized in India?

(A) 2009   (B) 2010
(C) 2011   (D) 2012

Q5. In which one of the following countries 2016 Olympic Games will be held?

(A) Argentina   (B) China
(C) France   (D) Brazil

Class 9 Math Answers

1. Ans A   2. Ans B   3. Ans A   4. Ans C   5. Ans D

Class 9 Physics Answers

1. Ans A   2. Ans B   3. Ans C   4. Ans C   5. Ans C

Class 9 Chemistry Answers

1. Ans D   2. Ans D   3. Ans A   4. Ans B   5. Ans A

Class 9 Bilogy Answers

1. Ans B   2. Ans A   3. Ans D   4. Ans D   5. Ans B

Class 9 Mental Ability Answers

1. Ans D   2. Ans C   3   Ans C   4. Ans B   5. Ans B

Class 9 English Answer

1. Ans A   2. Ans B   3. Ans C   4. Ans C   5. Ans D

Class 9 General Knowledge Answer

1. Ans D   2. Ans B   3. Ans B   4. Ans B   5. Ans D