



**DR. A. Q. KHAN SCHOOL & COLLEGE, BAHRIA TOWN PHASE-8  
MODEL PAPER GENERAL SCIENCE CLASS: VIII**

**Time Allowed: 20 Minutes**

**Name:** \_\_\_\_\_

**Section:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Invigilator's Signature:** \_\_\_\_\_

**Section-A (10 Marks)**

**Q.1: Fill the relevant bubble against each question according to curriculum.**

**(10)**

No	Question	A	B	C	D	A	B	C	D
i.	The organism that kills other organism for food is called:	Prey	Parasite	Pathogen	predator	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ii.	The nerves originating from brain are known as:	Spinal nerves	Sensory nerves	Cranial nerves	Optic nerves	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
iii.	If in an accident, a person's mid brain got damage, which body part will cease its movement?	Eye	Arm	Neck	Foot	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
iv.	For each biological trait there is a :	Nucleotide	Chromosome	Cell	Gene	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
v.	The analysis of DNA molecule shows 40% of thymine nucleotide. The amount of guanine nucleotide in this molecule will be:	10%	20%	30%	40%	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
vi.	Baking process uses enzymes from:	Wheat	Rice	Corn	Yeast	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
vii.	The alkali metals are always kept under oil because they are :	Non-metals	Highly reactive	Less reactive	None of these	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
viii.	Which is not the property of non-metal?	Low density	High boiling point	Low thermal conductivity	Dull appearance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ix.	When a substance reacts with oxygen and releases energy, the reaction is called:	Synthesis	Combustion	Decomposition	Displacement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
x.	When a substance reacts between element X and Y, temperature drops from 40°C to 25°C. What type of reaction it is?	Endothermic	Exothermic	Oxidation	Displacement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



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**Time Allowed: 2:10 Hrs.**

**Total Marks: 50**

**Section-B (30 Marks)**

**Q. 2 Answer the following questions briefly.**


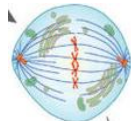
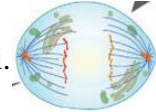
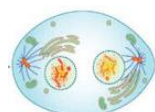

**( 10 x3=30)**

<b>i.</b>	What is mutualism? Give some examples.	<b>2+1</b>	<b>OR</b>	What is the significance of peripheral nervous system?	<b>03</b>
<b>ii.</b>	State the importance of mitosis in human life.	<b>03</b>	<b>OR</b>	Give the advantages of using biodegradable plastics.	<b>03</b>
<b>iii.</b>	Write three properties that make gold suitable for making jewelry.	<b>03</b>	<b>OR</b>	What is a chemical reaction? Give two examples.	<b>2+1</b>
<b>iv.</b>	Define the three modes of interactions in ecosystem.	<b>03</b>	<b>OR</b>	State the structure and function of spinal cord.	<b>2+1</b>
<b>v.</b>	Draw a diagram showing path followed by a reflex arc.	<b>03</b>	<b>OR</b>	Differentiate between continuous variation and discontinuous variation with examples.	<b>1.5+1.5</b>
<b>vi.</b>	Enlist the advantages of well adapted organisms.	<b>03</b>	<b>OR</b>	What are GMOs. Give few examples.	<b>2+1</b>
<b>vii.</b>	Write common names for groups of elements: Group IIA, Group VIIA, Group VIIIA	<b>03</b>	<b>OR</b>	Give reasons: i. Why airships are filled with helium gas? ii. Why neon gas is used in glowing neon advertising signs.	<b>1.5+1.5</b>
<b>viii.</b>	When you cut an apple and place it in air. It turns brown after sometime. Why?	<b>03</b>	<b>OR</b>	What is precipitation? Give example.	<b>2+1</b>
<b>ix.</b>	Write the process for making of vegetable ghee and margarine.	<b>03</b>	<b>OR</b>	Nowadays farmers preferred genetically modified corns over normal varieties. What do you think, why?	<b>03</b>
<b>x.</b>	Why chromosomes are not visible in non-dividing cell?	<b>03</b>	<b>OR</b>	Suggest some ways by which we can control water pollution.	<b>03</b>

### Section-C (20 Marks)

Note: Answer the following Questions in detail.

(4×5=20)

<b>Q.3</b>	<p>Explain the structure of DNA with diagram.</p>	<b>3+2</b>	<b>OR</b>	<p>Element X is in Group IA and element Y is in Group VIIA.</p> <p>i. What type of bond between them will be formed? Explain.</p> <p>ii. Draw electron-dot and electron-cross structures to show the formation of bond between them.</p>	<b>2+3</b>
<b>Q.4</b>	<p>Balance the following chemical equations:</p> <p>i. <math>H_2 + O_2 \longrightarrow H_2O</math></p> <p>ii. <math>Ca + O_2 \longrightarrow CaO</math></p> <p>iii. <math>Ag + O_2 \longrightarrow Ag_2O</math></p> <p>iv. <math>Na + H_2O \longrightarrow NaOH + H_2</math></p> <p>v. <math>NH_3 \longrightarrow N_2 + H_2</math></p>	<b>5</b>	<b>OR</b>	<p>Identify the given stages of mitosis and write down the set of events taking place in each stage.</p> <div style="display: flex; flex-wrap: wrap; justify-content: space-around;"> <div style="text-align: center; margin: 5px;"> <p>i. </p> </div> <div style="text-align: center; margin: 5px;"> <p>ii. </p> </div> <div style="text-align: center; margin: 5px;"> <p>iii. </p> </div> <div style="text-align: center; margin: 5px;"> <p>iv. </p> </div> <div style="text-align: center; margin: 5px;"> <p>v. </p> </div> </div>	<b>5</b>
<b>Q.5</b>	<p>Enlist the body functions controlled by the following brain parts:</p> <p>i. Hypothalamus</p> <p>ii. Medula Oblangata</p> <p>iii. Cerebrum</p> <p>iv. Cerebellum</p> <p>v. Thalamus</p>	<b>5</b>	<b>OR</b>	<p>Explain `Global warming`. Discuss its causes in detail.</p>	<b>2+3</b>
<b>Q.6</b>	<p>Explain how biotechnology is helping us in our daily life?</p>	<b>5</b>	<b>OR</b>	<p>Compare and contrast the properties of metals and non-metals.</p>	<b>5</b>