

MODEL PAPER GENERAL SCIENCE (ENGLISH VERSION)

Student
Name: _____

Roll No

Section A: Multiple Choice Questions

Marks: 40

Time: 60 minutes

سوالیہ سوچ

Q.2 Choose the correct sentence.

A. She written a letter.
B. She is write a letter.
C. —She wrote a letter.
D. She is written a letter.


جوابی سوچ

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

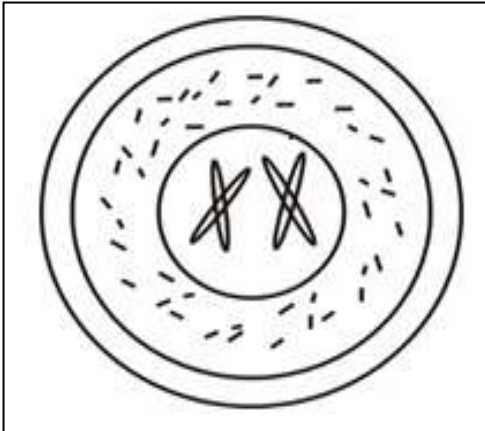
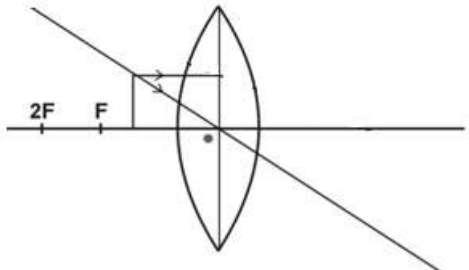
پہلی کئی خانوں میں سوال نمبر 2 کا درست جواب C ہے اس کے لئے پہلی
بے شمار سوال نمبر 2 کے ساتھ C کا درست جواب ہے اس کے لئے پہلی

ہدایات

1. ہر سوال کے چار ممکنہ جوابات دیئے گئے ہیں۔ ان میں سے صرف ایک جواب درست ہے۔ جوابات کے لئے دیئے گئے متعدد جوابی پرچے پر متعلقہ دائرے میں سیاہ رنگ بھریں۔ سوالیہ پرچے پر جوابات کے نشان نہ لگائیں۔
2. جواب میں ایک سے زیادہ دائرے بھرنے سے جواب غلط تصور ہوگا۔
3. سوالیہ پرچے پر سوال نمبر مثلاً 1, 2, 3, 4, 5... اور اس کے صحیح جواب مثلاً A, B, C, D کو نوٹ کریں اور اس کے بعد جوابی پرچے پر اسی سوال نمبر کے سامنے صحیح جواب کا دائرہ بھریں۔

Q.1	All of the following devices generate electricity EXCEPT: A. Battery B. Dry cell C. Dynamo D. Copper wire	Q.2	In SI (System International) the unit of pressure is: A. Pascal B. Newton C. Joule D. Candela
Q.3	The amount of light entering into the eye is controlled by A. forebrain. B. hindbrain. C. midbrain. D. spinal cord.	Q.4	Which of the following shows correct sequence of gene, DNA and chromosome from smallest to largest? A. Gene → DNA → Chromosome B. DNA → Gene → Chromosome C. Chromosome → Gene → DNA D. DNA → Chromosome → Gene
Q.5	The sum of the masses of reactants and products remain unchanged. The above statement is: A. Law of inertia B. Law of conservation of mass C. Law of definite proportion D. Newton's law of motion	Q.6	Short sightedness can be removed by wearing spectacles having A. concave lens. B. convex lens. C. concave mirror. D. convex mirror.
Q.7	The colour of eyes depend on the presence of pigments in A. iris. B. pupil. C. retina. D. cornea.	Q.8	The basic physical quantity is A. length. B. area. C. volume. D. density.
Q.9	The genetically modified crop used to overcome deficiency of Vitamin A is of A. sugar cane. B. wheat. C. golden rice. D. sweet potato	Q.10	One of the biotechnological products used in our daily life is A. cheese. B. sweets. C. water. D. tea.
Q.11	Breathing is difficult at high altitude because of A. high air pressure. B. low air pressure. C. high temperature. D. low temperature.	Q.12	The correct volume of liquid in the cylinder is  A. 35 ml B. 37 ml C. 38 ml D. 40 ml

Q.13	Coal fired power station is a main cause of A. air pollution. B. noise pollution. C. land pollution. D. water pollution.	Q.14	If gaps are not left between railway line, the railway track will bend. This is due to A. thermal expansion. B. thermal contraction. C. atmospheric pressure. D. elasticity of the material.															
Q.15	Which of the following is used in a camera to take images? A. Convex lens B. Concave lens C. Convex mirror D. Concave mirror	Q.16	The region with ozone depletion mainly faces A. rise in temperature. B. lack of oxygen. C. acidic rain. D. exposure to ultraviolet rays.															
Q.17	Carbon monoxide is a pollutant because it causes loss of A. vision. B. taste. C. hearing. D. smelling.	Q.18	In genetic engineering the desired gene is isolated and inserted into the bacterial A. plasmid. B. chromosome. C. cell wall. D. cytoplasm.															
Q.19	The technology which helps for breathing system for fire fighter is: A. Apollo technology B. Biotechnology C. Sky lab technology D. Cordless technology	Q.20	Sodium hydroxide is an alkali thus its taste is A. salty. B. bitter. C. sour. D. sweet.															
Q.21	When supplying heat to a metallic substance, the movement of its molecules A. stops. B. decreases. C. increases. D. remains unchanged.	Q.22	Which of the following is used to carry astronauts to space? A. Space shuttle B. Space probe C. Satellites D. Space station															
Q.23	The rise in mercury level in a thermometer is due to A. evaporation. B. expansion. C. condensation. D. conduction.	Q.24	Excretion is a process in which A. excess salts and water is removed. B. impulses are transferred to the brain. C. blood is circulated in the body. D. inhalation of air takes place.															
Q.25	A substance which gives different colours in different medium is a/an A. conductor. B. neutralizer. C. indicator. D. inverter.	Q.26	In which of the following power plants heat energy received from the Sun is used? A. Hydel B. Solar C. Nuclear D. Thermal															
Q.27	Ali has stone in his kidney. The doctor advised him to go for A. lithotripsy. B. kidney transplant. C. dialysis. D. blood transfusion.	Q.28	What happens to the number of chromosomes in daughter cells produced after meiosis and mitosis? <table border="1" data-bbox="911 1892 1458 2107"> <thead> <tr> <th></th> <th>Meiosis</th> <th>Mitosis</th> </tr> </thead> <tbody> <tr> <td>A.</td> <td>Remains same</td> <td>Becomes half</td> </tr> <tr> <td>B.</td> <td>Becomes half</td> <td>Remains same</td> </tr> <tr> <td>C.</td> <td>Remains same</td> <td>Remains same</td> </tr> <tr> <td>D.</td> <td>Becomes half</td> <td>Becomes half</td> </tr> </tbody> </table>		Meiosis	Mitosis	A.	Remains same	Becomes half	B.	Becomes half	Remains same	C.	Remains same	Remains same	D.	Becomes half	Becomes half
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A.	Remains same	Becomes half																
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C.	Remains same	Remains same																
D.	Becomes half	Becomes half																
Q.29	A tightly fitted metal cap on a bottle can be removed by A. cooling the cap. B. heating the cap. C. heating the bottle. D. inverting the bottle.	Q.30	Iron + Sulphate $\xrightarrow{\text{heat}}$ Iron Sulphide In the given chemical reaction, iron sulphide is a/an A. reactant. B. product. C. element. D. mixture.															

Q.31	<p>Which of the following is a balanced chemical equation?</p> <p>A. $\text{Mg}_{(s)} + \text{O}_{2(g)} \rightarrow \text{MgO}_{(s)}$</p> <p>B. $2\text{Mg}_{(s)} + \text{O}_{2(g)} \rightarrow 2\text{MgO}_{(s)}$</p> <p>C. $\text{Mg}_{(s)} + 2\text{O}_{2(g)} \rightarrow 2\text{MgO}_{(s)}$</p> <p>D. $2\text{Mg}_{(s)} + 2\text{O}_{2(g)} \rightarrow 2\text{MgO}_{(s)}$</p>	Q.32	<p>At constant temperature, if pressure of a gas increases, the collision between its molecules would</p> <p>A. decrease.</p> <p>B. increase.</p> <p>C. stop.</p> <p>D. remain same.</p>	
Q.33	<p>Concave lens is different from convex lens because</p> <p>A. it is thinner at edges and thicker at centre.</p> <p>B. it is thicker at edges and thinner at centre.</p> <p>C. its centre and edges both are thicker.</p> <p>D. its centre and edges both are thinner.</p>			
Q.34	<p>In the given cell diagram the chromosomes are present in the</p> <p>A. cytoplasm.</p> <p>B. cell wall.</p> <p>C. cell membrane.</p> <p>D. nucleus</p>	 <p>The diagram shows a circular cell with a dashed outer boundary representing the cell membrane and a solid inner boundary representing the cell wall. Inside the cell, there is a central nucleus. Within the nucleus, two X-shaped chromosomes are visible, each consisting of two sister chromatids joined at a central point.</p>		
Q.35	<p>Sulphur dioxide emitting from industries causes pollution of</p> <p>A. air.</p> <p>B. water.</p> <p>C. soil.</p> <p>D. noise.</p>	Q.36	<p>Eight hours is equal to</p> <p>A. 60 seconds.</p> <p>B. 360 seconds.</p> <p>C. 480 seconds.</p> <p>D. 3600 seconds.</p>	
Q.37	<p>All of the following are addition reactions EXCEPT:</p> <p>A. $\text{Fe}_{(s)} + \text{S}_{(s)} \rightarrow \text{FeS}_{(s)}$</p> <p>B. $2\text{Mg}_{(s)} + \text{O}_{2(g)} \rightarrow 2\text{MgO}_{(s)}$</p> <p>C. $\text{H}_{2(g)} + \text{O}_{2(g)} \rightarrow 2\text{H}_2\text{O}_{(l)}$</p> <p>D. $\text{CaCO}_{3(s)} \rightarrow \text{CaO}_{(s)} + \text{CO}_{2(g)}$</p>	Q.38	<p>Which of the following greenhouse gases is produced by human body?</p> <p>A. Nitrogen dioxide</p> <p>B. Carbon dioxide</p> <p>C. Sulphur dioxide</p> <p>D. Carbon monoxide</p>	
Q.39	<p>In the following diagram the image formed will be</p>  <p>The diagram shows a convex lens with its principal axis. Two focal points are marked: F (the front focal point) and 2F (the front twice focal point). An object, represented by a vertical arrow, is placed between the lens and the F point. A ray from the top of the object is drawn parallel to the principal axis, hits the lens, and refracts through the F point on the opposite side. Another ray from the top of the object is drawn through the optical center of the lens and continues straight. The two rays diverge on the right side of the lens. Dashed lines are drawn back from these rays to form a virtual, upright, and magnified image on the left side of the lens.</p> <p>A. virtual and erect.</p> <p>B. virtual and inverted.</p> <p>C. real and erect.</p> <p>D. real and inverted.</p>		Q.40	<p>Which of the following is used for the measurement of ultraviolet and infrared rays from the outer space?</p> <p>A. Radio telescope</p> <p>B. Optical telescope</p> <p>C. Broad spectrum telescope</p> <p>D. Terrestrial telescope</p>

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Student Name _____

Roll No					
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Section B: Constructed Response Questions

Marks: 60

Time: 2 hours

2۔ جواب دینے سے پہلے سوال کو غور سے پڑھیں۔ 3۔ سوال کا جواب دی گئی جگہ

ہدایات: 1۔ ہر سوال کا جواب دینا ضروری ہے۔
پر تحریر کریں۔**Q.No.1**

- a. Name THREE parts of the human brain.
b. Write any ONE function of each part of the human brain.

(Total 6 Marks)

(3 Marks)

(3 Marks)

Q.No.2

- a. Indicate any FOUR fields in which biotechnology is used.
b. Name any TWO medicinal products which are made through biotechnology.

(Total 6 Marks)

(4 Marks)

(2 Marks)

Q.No.3

- a. Write any FIVE ways to keep your hometown clean.
b. How can we contribute to provide oxygen to air?

(Total 6 Marks)

(5 Marks)

(1 Mark)

Q.No.4

- a. Differentiate between addition and decomposition reactions.
b. Identify the following chemical reactions as exothermic or endothermic reaction.
i. Burning of coal (ii). Breakdown of glucose inside the body (iii). Burning of sulphur (iv). Cooking of food

(Total 6 Marks)

(2 Marks)

(4 Marks)

Q.No.5. Write any TWO properties of acids, alkalis and salts.**(Total 6 Marks)**

- (i). Acids (ii) Alkalis (iii) Salts

Q.No.6.

- a. Convert 50 meters into centimeters and millimeters.
b. Convert 800 grams into kilograms.

(Total 6 Marks)

(4 Marks)

(2 Marks)

Q.No.7. How do solids expand? Describe with TWO examples.**(Total 6 Marks)****Q.No.8.**

- a. Write FOUR similarities between human eye and lens camera.
b. Write any TWO factors on which thickness of lens of a human eye depends.

(Total 6 Marks)

(4 Marks)

(2 Marks)

Q.No.9.

- a. Write any ONE function of each of the following electronic components.
i. Resistor ii. Capacitor iii. Diode
b. Name any THREE output devices that are used at home.

(Total 6 Marks)

(3 Marks)

(3 Marks)

Q.No.10.

- a. Write FOUR characteristics of space suit which astronauts use in space.
b. Which TWO severe conditions are faced by the astronauts in space?

(Total 6 Marks)

(4 Marks)

(2 Marks)