GRADE – VIII MODEL PAPER 2017

SCIENCE

Section A: Multiple Choice Questions
Marks: 40 Time: 50 Minutes

سواليه پر چه	جوابی پرچہ
Q.2 Choose the correct sentence.	1. (A) (B) (C) (D)
A. She written a letter.	2. A B D
B. She is write a letter.	3. A B C D
C.—She wrote a letter.	4. (A) (B) (C) (D)
D. She is written a letter.	ا رودی گئی مثال میں موال نبر 2 کا درست جواب C ہے جس کے لئے جوا یرے میں موال نبر 2 کے سامنے C کا دائرہ سیا در نگ میں مجرا ہوا ہے۔

1. برسوال کے چار مکند جوابات دیے گئے ہیں۔ان میں سے مرف ایک جواب درست ہے۔ جوابات کے چار مکند جوابات کے گئے میں۔ان میں سے مرف ایک جواب درست ہے۔ جوابات کے لئے دیے گئے علیمہ جوابی پر چے پر متعلقہ دائر سے میں سیاہ رنگ کیں۔
2. جواب میں ایک سے زیادہ دائر ہے ہرنے سے جواب غلط تصور ہوگا۔
3. سوالیہ پر چے پر سوال نبر مثلاً 1 , 3 , 4 , 3 , 2 , 1 اور اس کے جواب مثلاً 4 , 5 , 8 , 5 , اور اس کے جواب مثلاً 4 , 5 , 8 , 5 , اور اس کے بعد جوابی پر چے پرائی سوال نمبر مثلاً 4 , 5 , 2 , اور اس کے بعد جوابی پر چے پرائی سوال نمبر کے سامنے میں جواب کا دائرہ مجریں۔

Q1.	Which of the following parts of the brain changes the size of the pupil to control the amount of light entering the eye? A. Cerebrum B. Cerebellum C. Mid brain D. Medulla oblongata	Q2.	All of the following are main organs of excretory system EXCEPT: A. Ureter B. Urethra C. Gall bladder D. Urinary bladder		
Q3.	The medical technique which is used as a treatment by doctors in case of kidney failure is A. lithotripsy. B. transplant. C. dialysis. D. ultrasound.	Q4.	Which of the following is correct about meiosis? A. It occurs in somatic cells. B. Two daughter cells are formed. C. Daughter cells have a complete of chromosomes. D. The number of chromosomes is reduced to half.		
Q5.	The number of daughter cells formed at the end of mitosis is A. 2. B. 4. C. 6. D. 8.	Q6.	A. vacuole. B. ribosome. C. chromosome. D. cell membrane.		
Q7.	Which of the following is involved in the transference of characters from parents to children? A. Cell membrane B. Vacuole C. Nucleus D. Ribosomes	Q8.	Restriction enzymes are used in biotechnology to A. cut the gene. B. bind the gene. C. make the gene. D. destroy the gene.		

Q9.	Biotechnology is used in all of the following	Q10.	A genetically modified cow can produce
۵٥.	fields EXCEPT:	4.0.	more
	A Draduction of vaccines		A
	A. Production of vaccines B. Recycling of waste products		A. quantity of milk. B. solid waste.
	C. Synthesis of inorganic compounds		C. identical offspring.
	D. Increasing nutritional value of food		D. oxygen gas.
	-		
Q11.	Which of the following air pollutants is a	Q12.	Carbon monoxide is responsible to cause
	major cause of breakdown of the ozone layer?		A. loss of speech.
	layer:		B. decreased hearing.
	A. O ₂		C. increased muscular coordination.
	B. SO ₂		D. loss of vision.
	C. CFCs		
	D. NO ₂		
Q13.	Which of the following traps the rays of the	Q14.	Which of the following can cause skin
	sun and keep our earth warm?		cancer on exposure?
	A. Ozone layer		A. Infrared
	B. Acid rain		B. X-rays
	C. Deforestation		C. Ultraviolet rays
	D. Greenhouse effect		D. CFCs
Q15.	Which of the following chemical reactions	Q16.	Which of the following is a balanced
	takes place inside the human body?		chemical equation?
	A. Photosynthesis		A. $4H_2S_{(g)} + 2SO_{2(g)} \rightarrow 3H_2O_{(l)} + 3S_{(s)}$
	B. Respiration		B. $2H_2S_{(g)} + SO_{2(g)} \rightarrow 2H_2O_{(l)} + 3S_{(s)}$
	C. Formation of CaCO₃		C. $H_2S_{(g)} + 2SO_{2(g)} \rightarrow 2H_2O_{(l)} + S_{(s)}$
	D. Formation of CaO		D. $2H_2S_{(g)} + SO_{2(g)} \rightarrow 2H_2O_{(l)} + S_{(s)}$
Q17.	$2Na + Cl_2 \rightarrow 2NaCl$	Q18.	heat
	The state of Cl ₂ and NaCl in the given		$CaCO_3 \rightarrow CO_2 + CaO_{(s)}$
	chemical reaction is		The given reaction is an example of
	A gas and solid		A. an addition reaction.
	A. gas and solid. B. liquid and liquid.		B. a decomposition reaction.
	C. solid and liquid.		C. a physical reaction.
	D. liquid and gas.		D. a neutralization reaction.
		000	M/h - n - n - Ab d - n - n - i - n - d - d - d - n - i - n - n - n
Q19.	HCI + NaOH → NaCI + H ₂ O	Q20.	I vynen metnyl orange is added to vinedar.
Q19.	HCl + NaOH → NaCl + H ₂ O In the given reaction, the products are	Q20.	When methyl orange is added to vinegar, the colour of the vinegar changes to
Q19.	HCl + NaOH → NaCl + H₂O In the given reaction, the products are	Q20.	the colour of the vinegar changes to
Q19.	In the given reaction, the products are A. acid and alkali.	Q20.	the colour of the vinegar changes to A. red.
Q19.	In the given reaction, the products are A. acid and alkali. B. alkali and water.	Q20.	the colour of the vinegar changes to A. red. B. pink.
Q19.	In the given reaction, the products are A. acid and alkali.	Q20.	the colour of the vinegar changes to A. red.

Q21.	The unit of pressure is A. Newton. B. Pascal. C. Candela. D. Ampere. According to Boyle's law if the pressure of a gas is doubled, then its volume becomes	Q22.	When the piston is pushed downward as shown in the figure, the water flows out with high pressure from A. hole A. B. hole B. C. hole C. D. all holes. Candela is the unit of
	A. doubled.B. one half.C. quarter.D. remains same.		A. temperature.B. electric current.C. intensity of light.D. amount of a substance.
Q25.	2 kilogram is equal to A. 0.2 grams B. 20 grams C. 200 grams D. 2000 grams	Q26.	Which of the following instruments can be used to find out height of a piece of chalk? A. B. C. D.
Q27.	Thermal expansion of solids results in an increase in all of the following EXCEPT: A. Length of the solid B. Area of the solid C. Volume of the solid D. Density of the solid	Q28.	In winter, water pipes burst due to A. expansion of water. B. contraction of water. C. expansion of pipes. D. contraction of pipes.
Q29.	Provision of gaps between railway tracks is made to avoid damages caused by A. thermal expansion. B. thermal contraction. C. force of friction. D. force of gravity.	Q30.	Overhead telephone cables between two poles are given a certain amount of sag, so that they cannot break in cold weather due to A. pressure. B. contraction. C. expansion. D. elasticity.

Q31.	Which of the following is correct for convex	Q32.	When an object is placed in front of convex
Q011	lenses?	Q02.	lens between F and 2F, the image formed will be
	A. Thicker from the edges		will be
	B. Converge light rays		A. real, inverted and equal in size.
	C. Diverge light rays		B. real, inverted and larger in size.
	D. Partially silvered		C. real, inverted and smaller in size.
			D. virtual, erect and magnified.
Q33.	The types of lens used in the overhead	Q34.	The part of the camera which works like
	projector are		pupil of the human eye is
	A. biconcave and biconvex.		A. lens.
	B. concavo-convex and convexo-		B. shutter.
	concave.		C. film.
	C. plano convex and plano concave. D. double convex lens and double		D. mirror.
	concave lens.		
Q35.	Dynamo is a device of producing	Q36.	Generator is a device that converts
QUU.	byname is a device of producing	QUU.	mechanical energy into
	A. mechanical energy.		37
	B. electrical energy.		A. chemical energy.
	C. solar energy.		B. thermal energy.
	D. nuclear energy.		C. electrical energy. D. kinetic energy.
Q37.	Which of the following devices is used to	Q38.	Which of the following makes it easy for
	store electric charges?		men to survive in space?
	A. Resistor		A. High temperature
	B. Capacitor		B. Zero gravity
	C. Transistor		C. Space suit
	D. Diode		D. Zero pressure
Q39.	Spacecraft is protected from the effects of	Q40	Which of the following space technologies
	fog by using		provides better images for X-rays?
	A. liquid-cooled garments.		A. Archaeology
	B. anti-corrosion coatings.		B. Vision research
	C. sensor.		C. Active Pixel Sensor
	D. apollo.		D. Global Positioning Satellites

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	ion B: Constructed Response 2 hours 10 minutes Mark	Roll No.							
	 سوال کا جواب دی گئی جگه پر تحریر کریں. 		<u>ا</u> .		2	,	*10	ا مد ا	رایات: 1
Q1.	د. صوال کابواب دی ی جلد پر حریر کریں Classify the following actions		•		.2	ى-چە-		ال 19جوار tal 6 M	
	writing, reading, inhaling,	speaking, eye blinking	g, walkin	g					
	Voluntary Action	Involuntary Act	ion						
Q2. a.	Define biotechnology.						(To	tal 6 M (2	l arks) Marks)
b.	lbad is a tall, fair boy with blu						ligent.		
	Which of the above characte	eristics has Ibad acqu	ired from	n his pa	arents?			(4	Marks)
Q3. a.	Name TWO pollutants that o	an cause acid rain. \	Which ac	ids are	forme	d durin		tal 6 M rain?(4	

Name TWO sources which add sulphur dio	xide in the atmosphere.	(2 Marks
entiate between exothermic and endothermic rea	(To actions. Give at least THREE points.	otal 6 Marks)
Exothermic Reaction	Endothermic Reaction	
Give THREE uses of acids from daily life.	(To	otal 6 Marks) (3 Marks)
Describe how an aerosol works.		(3 Marks)
	/Ta	stal 6 Marks)
What are prefixes?	(10	otal 6 Marks) (1 Mark)
·		,
	Exothermic Reaction Give THREE uses of acids from daily life.	entiate between exothermic and endothermic reactions. Give at least THREE points. Exothermic Reaction Endothermic Reaction Give THREE uses of acids from daily life. Describe how an aerosol works.

i. 1 millisecond to second ii. 1 m to cm c. Complete the following by i. 10 ⁻⁶ gm = ii. 10 ⁻³ gm= iii. 10 ³ gm = Q7. Write THREE disadvantages of thermal ONE way in each case to overcome the Q8. a. What defect occurs in the eye of a	(2	2 Marks)
c. Complete the following by i. 10^{-6} gm = ii. 10^{-3} gm= iii. 10^{3} gm = 27. Write THREE disadvantages of thermal ONE way in each case to overcome the		
i. 10^{-6} gm =		
ii. 10^{-3} gm=	ng prefixes.	3 Marks)
iii. 10 ³ gm =		
iii. 10 ³ gm =		
Write THREE disadvantages of thermal DNE way in each case to overcome the		
Write THREE disadvantages of thermal ONE way in each case to overcome the		
	(Total 6 pansion in solids i.e. bridges, roads and railway tracks. blem.	
	(Total 6 rson in case of short-sightedness?	Marks) 3 Marks)

b.	How can short sightedness be corrected? Elaborate with diagram.	(3 Marks)
Spa	ce for diagram	
Q9.		(Total 6 Marks)
a.	Name the principle on which the A.C. generator works.	(1 Mark)
b.	Name FOUR parts of a generator.	(2 Marks)
— с.	How does an A.C. generator produce current?	(3 Marks)

Q10. State any FOUR benefits caused by the technology of the spa	(Total 6 Marks) ace exploration. Describe any TWO of them.