This Question Paper contains 20 printed pages. (Part - A & Part - B)

у 2 Sl.No. 0101687

11 (E)

(MARCH, 2019) (NCERT OTHERS) પ્રશ્ન પેપરનો સેટ નંબર જેની સામેનું વર્તુળ OMR શીટમાં ઘટ્ટ કરવાનું રહે છે. Set No. of Question Paper, circle against which is to be darken in OMR sheet.

01

Question Paper Reading 15 Minutes

Part - A: Time: 1 Hour / Marks: 50 Part - B: Time: 2 Hours / Marks: 50

(Part - A)

Time: 1 Hour]

[Maximum Marks: 50

Instructions:

- 1) There are 50 Multiple Choice type Questions in Part A and all questions are compulsory.
- 2) The questions are serially numbered from 1 to 50 and each carries 1 mark.
- 3) Read each question carefully, select proper alternative and answer in the O.M.R. sheet.
- 4) Separate OMR sheet is given for answering these questions. The answer of each question is to be given by darkening the circle against options (A), (B), (C), (D). Circle representing the most correct answer is to be darken with ball pen.
- 5) Set No. of Question Paper printed on the upper most right side of the Question Paper, the same is to be written in the space provided in the OMR sheet and circle depicting the correct set No. is to be darken with ball pen.
- 1) Which of the statements about the reaction below are incorrect?

Rough Work

 $2PbO(s) + C(s) \rightarrow 2Pb(s) + CO₂(g)$

- (a) Lead is getting reduced
- (b) Carbon dioxide is getting oxidised
- (c) Carbon is getting oxidised
- (d) Lead oxide is getting reduced
- (A) (a) and (b)

- (B) (a) and (c)
- (C) (a), (b), (c) and (d)
- (D) (a), (b) and (c)

2) Which of the following will be required to identify the gas evolved when dilute hydrochloric acid reacts with zinc metal? Rough Work

(A) pH paper

(B) Red litmus paper

(C) A burning splinter

(D) Lime water

3) An element P on exposure to moist air turns green and a new compound Q is formed. The substances P and Q are

(A)
$$P = Fe$$
, $Q = Fe_2O_3$ (B) $P = Cu$, $Q = CuO$
(C) $P = Ag$, $Q = Ag_2S$ (D) $P = Al$, $Q = Al_2O_3$

(B)
$$P = Cu, Q = CuO$$

$$(\mathfrak{C})$$
 $P = Ag, Q = Ag, S$

(D)
$$P = Al, Q = Al_2O_3$$

Dilute hydrochloric acid is added to granulated zinc taken in a test tube. The following observations are recorded. Point out the correct observation.

- (A) The surface of metal becomes shining
- (B) The reaction mixture turns milky
- (C) Odour of a pungent smelling gas is recorded
- (D) A colourless and odourless gas is evolved

5)
$$CaCO_3(s) \xrightarrow{heat} CaO(s) + CO_2(g)$$

The above reaction is an example of

- (A) Combination reaction
- (B) Decomposition reaction
- (C) Double displacement reaction
- (D) Displacement reaction

10 mL of a solution of NaOH is found to be completely 6) neutralised by 8 mL of a given solution of HCl. If we take 5 mL of the same solution of NaOH, the amount HCl solution (the same solution as before) required to neutralise it will be

(A) 4 mL

(B) 8 mL

(C) 12 mL

(D) 16 mL

Rough Work The formula of washing soda is (A) NaHCO, (B) Na₂CO₃·2H₂O (C) Na, CO, · 10H, O (D) Na,CO, ·5H,O Which of the following statement is incorrect? 8) (A) Acid has pH more than 7 (B) Acid gives H+ve ions in water (C) Acid conducts electricity in aqueous solution (D) Acid turns blue litmus paper to red Match the chemical substances given in column X with their 9) appropriate application given in column Y. Column Y Column X Preparation of glass Bleaching soda (p) (i) (ii) Production of H,&Cl, (q) Baking soda Washing soda (iii) Decolourisation (r) Sodium hydroxide (iv) Antacid (s) $r \rightarrow (iv)$ $s \rightarrow (iii)$ (A) $p \rightarrow (ii)$ $q \rightarrow (i)$ $s \rightarrow (i)$ (B) $p \rightarrow (iii)$ $q \rightarrow (ii)$ $r \rightarrow (iv)$ (C) $p \rightarrow (iii)$ $q \rightarrow (iv)$ $r \rightarrow (i)$ $s \rightarrow (ii)$ $s \rightarrow (iii)$ (D) $p \rightarrow (ii)$ $q \rightarrow (iv)$ $r \rightarrow (i)$ 10) A mild edible acid is added in making baking powder. Name the acid. (A) acetic acid citric acid (B)

(C) oxalic acid

(D) tartaric acid

11)	melti	ement reacts with Oxygen to ing point. This compound ent is likely to be	is also sol	uble in water. This	(A) N	Work
	(A)	Carbon				
	(B)	Calcium			(B) N	
Ť.	(C)	Silicon				
4	(D)	Iron			Which	
					/. (A)	
12)	Whi	ch two metals are comparat	ively poor	conductors of heat?	(B) A (?)	
	(A)	Lead and Iron		ic turns blue litmus	A (G)	
	(B)	Mercury and Iron				
	(C)	Lead and Mercury				
	(D)	Silver and Copper			ingengas IaJ	
					(p) Ble	
13)	You you	are given a solution of AgN think cannot displace Ag fr	IO ₃ . Which om AgNO	of the following do solution?	0 8	
	(A)	Magnesium	(B)	Zinc	(s) Sed	
	(C)	Gold	(D)	Copper	e-q (A)	
		(in daspagop ())mes en			e q (1).	
14)	Met	als are refined by using disowing metals are refined by	fferent me	thods. Which of th	e (1)	
	(i)	Ag	(ii)	Cu	, j	
	(iii)	Na Manual I slowed adio	(iv)	Al	A mild do	
	(A)	(i) and (iii)	(B)	(i) and (ii)	deos (f.	
	(C)	(ii) and (iii)	(D)	(iii) and (iv)	lako (1)	

15) Arrange the following metals in the order of their decreasing | Rough Work reactivity. It seems their of fiel most enloy nadw abnest a

- (A) Mg > Al > Zn > Fe
- (B) Zn > Al > Fe > Mg
- (C) Al > Mg > Zn > Fe
- (D) Zn > Mg > Fe > Al

16) Butanone is a four-carbon compound with the functional group

- (A) Carboxylic acid
- (B) Aldehyde

(C) Ketone

(D) Alcohol

17) Acetic acid was added to a liquid X kept in a test tube. A colourless and odourless gas Y was evolved. The gas was passed through lime water which turned milky. It was concluded that

- (A) Liquid X is Sodium hydroxide and the gas Y is CO₂.
- (B) Liquid X is Sodium carbonate and the gas Y is CO₂.
- (C) Liquid X is Sodium acetates and the gas Y is CO₂.
- (D) Liquid X is Sodium chloride and the gas Y is SO₂.

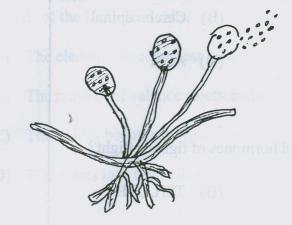
18) In which of the following compounds, OH is the functional group?

- (A) Butanal
- Butanoic acid (B)
- Butanone (C)
- (D) Butanol

19)	abou	ch of the following statements is not a correct statement at the trends when going from left to right across the ods of the Periodic Table?
	(A)	The elements become less metallic in nature
	(B)	The number of valence electrons increases
	(C)	The oxides become more acidic
	(D)	The atoms lose their electrons more easily
		in Butanone is a cour-carbon con gound with the functional group
20)		gas welding used for welding broken pieces of iron, we nally use a mixture of
	(A)	Ethane and Oxygen (B) Ethene and Oxygen
	(C)	Ethyene and Oxygen (D) Ethene and Hydrogen
		para regulario exalecti e ogran partia) samey taja y same tiga
21)		ng deficiency of oxygen in tissues in human beings, pyruvic is converted into pyruvate in the
	(A)	Mitochondria (B) Golgi body
	(C)	Chloroplast (D) Cytoplasm (D)
		(2) Copper
22)		er digestion, proteins, carbohydrates and fats are ectively converted into
	(A)	Glucose, fatty acids and glycerols
	(B)	Amino acids, glucose and fatty acids
	(C)	Amino acids, glucose, fatty acids and glycerol
	(D)	Glucose, glycerol and fatty acids

23)	Whi	ch of the following is not a cor	npone	ent of nerve cell? Rough Work
	(A)	Cell body	(B)	Cerebrospinal
	(C)	Dendrites	(D)	Axon
				A Wind
24)	Whi	ch hormones are called hormo	nes of	f fight or flight?
	(A)	ACTH, GH	(B)	TSH, GTH
	(C)	Adrenaline	(D)	Thyroxine, Insulin
				, mudoxidS (A)
25)		onnection where nerves which de move muscles is called	etect he	eat, light etc. to nerves
	(A)	Neuro-muscular junction		
	(B)	Reflex arc		28) The two ovidest in lamm fer smuchte known as
	(C)	Reflex action significant		STIGHTY (75
	(D)	Medulla		aivrs0 (O)
26)	Plan	nt hormone which inhibits grow	th is	29) The common passage meantd
	(A)	Fluxion		in indiana salah s
	(B)	Gibberellins		(A) Urethra L.
	(C)	Cytokinins		(¹ / ₂) -V as de forcas
	(D)	Abscisic acid		reter ();
	(2)	Artificial selection		too too

27) Identify the organism Rough Work



(A) Rhizobium

(B) Rhizopus

- (C) Rhizoid (D) Mushroom
- 28) The two oviduct in human female unite into an elastic bag like structure known as
 - (A) Vagina

(B) Fallopian tube

(C) Cervix

- (D) Uterus
- 29) The common passage meant for transporting Urine and Sperms in male is
 - (A) Urethra
 - (B) Vas deferens
 - (C) Ureter
 - (D) Anus

30)	Growing foetus derive nutrition	n from mothers	blood through Roug	h Work
	(A) Uterus		opian tube	
	(C) Placenta	(D) Cerv	vix (A)	
	60 cm	ess (the (D)	C) 80 cm	
31)	A Mendelian experiment considering violet flowers with sh			
	flowers. The progeny all bore	violet flowers,	but almost half	
	of them were short. This sugge		etic makeup of	
	the tall parent can be depicted a	15	The object?	
	WWTT (A)	(B) TtW	W	
	(C) TTww	(D) TtW	w	
22)	Which of the following is cont	rolled by genes	of the small the centres	
32)	Willelf of the following is cont.	noned by genes	At the centre of cur	
	(X) Weight of a person		Between the near en	
	(Y) Height of a person			*
	(A) Only X			
	parallel labingo muntukam		miwoller and to day	
	(B) Only Y		1000	
	(C) Both X and Y		() Diumend	
	(D) Sometimes X and Sometimes	imes Y	· include	
			22410	
33)	Wild Cabbage is being cultiva humans have generated Brocc			
	it. This is an example of	on, Caamnowe		
	(A) Geographic isolation		in it is the found (ength o	
	(B) Area and sections			
	(B) Natural selection	1 /	H1. Co.	
	(C) Genetic drift	(C) 1 / 1	. 4	
	(D) Artificial selection			**

							2 0	
34)		ocal length?	ure of a spherica	l mir	ror is 40 c		Rough Work	2
	(A)	40 cm		(B)	20 cm		(C) P	*
	(C)	80 cm		(D)	60 cm		31) Alvlaid	
25)	The	ong white				Wolf How The proper	graised American	
35)	erec		a concave mirro the object. Whe					
	(A)	Between the p	ole of the mirror	and	its princi	oal focus		
	(B)	Beyond the ce	ntre of curvature	doă		e zolika odto		
	(C)	At the centre of	fcurvature				o₩ (K)	
	(D)	Between the p	rincipal focus an	nd the	e centre of	curvature		
				-				
36)	Whi		owing materials	s has	s maximu	ım optical		
	(A)	Diamond					sid y	
	(B)	Pearl			man ba	X -squad	18 13 y s	
	(C)	Glass					a e e	
	(D)						. 3) Wild Co humans it. This i	
37)	Wha	at is the focal lea	ngth of a lens of	pow	er – 2.0 D	izi oʻriq erg o	oo (Ar	
	(A)	-0.5 m		(B)	0.5 m		is in the state of	
	(C)	≃1.5 m		(D)	1.5 m		5.4	

38) The part of eye that determines the colour of the eye of a person

Rough Work

(A) Pupil

(B) Cornea

(C) Iris

- (D) Retina
- 39) What is the formula for an electric current?
 - (A) I = Qt
- (B) $I = \frac{Q}{t}$
- (C) $I = \frac{t}{Q}$ (D) $I = W \cdot t$
- **40)** Two conducting wires of the same material and equal lengths and equal diameters are first connected in series and then parallel in a circuit across the same potential difference. The ratio of heat produced in series and parallel combinations would be
 - (A) 1:2

(C) 4:1

- (D) 1:4
- 41) On which factors does the resistivity of conducting wire depend?
 - (A) Length of wire
 - (B) Area of cross-section of wire
 - (C) Volume of wire
 - (D) Material of wire

42) Which symbol is used to represent the resistance? Rough Work









- 43) How much electric current will pass when an electric heater having 50Ω resistor is connected to 200 V?
 - (A) 4A

(B) 4.4 A

(C) 44 A

- (D) 0.44 A
- 44) The commonly used safety fuse wire is made of
 - (A) Copper

 - (C) Nickel
 - (D) An alloy of tin and lead

		S-83	31
45)	The	phenomenon of electromagnetic induction is Rough Work	
	(4)	CA CMARCH, 201 Vibleit o tengam	
	(A)	The process of charging a body	
		The process of generating magnetic field due to a current passing through a coil	
		sile / ())	
	(C)	Producing induced current in a coil due to relative motion between a magnet and the coil	
	(D)	The process of rotating a coil of an electric motor	
		energy. Which of the following is not ultimately derived from	
		in contract and it side as present in the contract of the cont	
46)	The	core of an electromagnet must be of	
	(A)	hard iron	
		(C) Nuclear unergy	
	(B)	soft iron assumed a (D). P	
	(C)	rusted iron	
	(D)	steel	
		(A) Uniter Fluorine Carbon	
		(B) Carroon Chlore Pluonine	
47)	A fu	se wire is a/an noon 2 bud 4 moli 0 (2)	
	(A)	Conductor having low melting point	
	(B)	Insulator having low melting point	
	(C)	Semi-conductor having low melting point	
	(D)	Conductor having high melting point	

Rough Work

48)		o had first obtained the electric current with the help of gnetic field?
	(A)	Oerested who a galaxial blackson of second s
	(B)	Faraday of the process of generating magnetic field and to deliver a service of the process of generating magnetic field and the generating magnetic fi
W.	(C)	Volta)
	(D)	oducing induced current in a coil due to relative moile of several in a coil due to relative moinet and the coil
49)	ener	st of the sources of energy we use represent stored solar gy. Which of the following is not ultimately derived from Sun's energy?
	(A)	Geothermal energy
	(B)	Wind energy
	(C)	Nuclear energy
	(D)	Bio-mass
		ated from
50)	Whi	ch of the following is the full form of CFC?
	(A)	Chloro Fluorine Carbon
	(B)	Carbon Chloro Fluorine
	(C)	Chlorin Fluid Carbon asks ai ouv
	(D)	Chloro Fluoro Carbon
		reductor naving low melting point
		nar conductor having low meding point
	•	enductor having high melting point

11 (E)

(MARCH, 2019) (NCERT OTHERS)

(Part - B)

Time: 2 Hours] Instructions:

[Maximum Marks: 50

- 1) Write in a clear hand writing.
- 2) There are four sections in Part B of the question paper and total 1 to 18 questions are there.
- 3) All questions are compulsory. Internal options are given.
- 4) The numbers at right side represents the marks of the questions.
- 5) New section may be started on a new page of answer book.
- 6) It is advisable to maintain sequence.

SECTION-A

- Answer the questions 1 to 5 in short. (2 marks each)
 - 1) Why are decomposition reactions called the opposite of combination reaction? Write equations for these reactions. [2]
 - 2) Give two important uses of washing soda and baking soda. [2]
 - 3) State two ways to prevent the rusting of iron. [2]

4)	List four specific characteristics of the images of the object formed by convex mirrors.	[2]
	(OR ADMA(A)	
4)	A doctor has prescribed a corrective lens of power +1.5 D. Find the focal length of the lens. Is the prescribed lens diverging or converging?	
: shi		
5)	The potential difference between the terminals of an electric heater is 60V. When it draws a current of 4A from the source. What current will the heater draw if the potential difference is increased to 120 V? OR	[2]
5)	Write two points of differences between a voltmeter and an ammeter.	
	SECTION-B or oblight to store SECTION-B	
Ans	wer the questions 6 to 10 in short. (2 marks each)	
6)	State the laws of refraction of light. If the speed of light in vacuum is 3×10^8 m/s find the absolute refractive index of a medium in which light travels with a speed of 1.4×10^8 m/s.	[2]
7)	Draw a ray diagram to show the refraction of light through a glass prism. Mark on it	[2]
	a) the incident ray	
	b) the emergent ray	
	c) the angle of deviation	
8)	What are the qualities of an ideal source of energy?	[2]
9)	What are the problems caused by the non-biodegradable wastes that we generate? OR	[2]
9)	What is ozone? How and where is it formed in the atmosphere? Explain how does it affect ecosystem.	
10)	What changes can you make in your habits to become more environment-friendly?	[2]

SECTION-C

	Answer	the fe	ollowing	questions	11	to	15	in	brief	(3	marks	each).	,
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11)	How many groups and periods are there in the Modern Periodic Table? How do the atomic size and metallic character of element vary as we move a) down a group and	[3]
	b) from left to right in a period	
12)	Draw a neat labelled diagram of human brain and mention the functions of Fore brain.	[3]
13)	What are the different methods of contraception?	[3]
	OR Spinor Control of the Bolton Control of t	
13)	List any four modes of asexual reproduction. Give one example of each. Explain any two modes of asexual reproduction.	
14)	"It is a matter of chance whether a couple will have a male or a female child." Justify this statement by drawing a flow chart.	[3]
15)	Explain the underlying principle and working of an electric generator by drawing a labelled diagram.	[3]

OR

15) Draw magnetic field lines around a bar magnet and list the properties of magnetic lines of force.

SECTION-D

- Answer the following questions 16 to 18 in detail (5 marks each).
 - 16) a) What are hydrocarbon? Give examples.

[5]

[5]

- b) Give the structural differences between saturated and unsaturated hydrocarbons with two examples each.
- What is a functional group? Give examples of four different functional group?

OR

- 16) Explain the given reaction with examples
 - a) Hydrogenation reaction
 - b) Oxidation reaction
 - c) Substitution reaction
 - d) Saponification reaction
 - e) Combustion reaction
- 17) What is hypermetropia? State two causes. With the help of ray diagram show [5]
 - a) eye defect
 - b) correction of hypermetropia
- 18) Draw a neat and labeled diagram of human respiratory system and explain the process of respiration in human being.

OR

- 18) a) Draw a diagram to show open stomatal pore and label on it
 - i) guard cells
 - ii) chloroplast
 - b) State the function of stomata.
 - c) How do guard cells regulate the opening and closing of stomatal pore?

