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This Question Paper contains 8 Printed Pages.

Sc જ જિલ્લા પ્રશ્ન પેપરનો સેટ નંબર Set No. of Question Paper

N-11(E)

PART - A

[Maximum Marks: 50

Instructions :

Time: 75 minutes!

- (1) There are 50 objective type questions in this part and all are compulsory.
- (2) The questions are serially numbered from 1 to 50 and each carries 1 mark.
- (3) You are supplied with separate OMR sheet with the alternatives (A) ○, (B)○, (C) ○, (D) against each question number. For each question, select the correct alternative and darken the circle as completely with the pen against the alphabet corresponding to that alternative in the given OMR sheet.
- From the following 1 to 50 questions, select the correct alternative from the given four answers and darken the circle with pen against the alphabet, against the number in OMR sheet.
- Each question carries 1 mark.
- 1. What is molecular formula of Ethanal?
 - (A) HCHO

(B) CH₃OH

(C) CH₃CHO

- (D) CH₃CH₂OH
- 2. U shaped part at the beginning of small intestine is called
 - (A) Duodenum

- (B) Gall Bladder
- (C) Urinary Bladder
- (D) Rectum
- 3. Which cells produce disease resistance substance (immuno potential substance)?
 - (A) RBC (Erythrocytes)
- (B) Leucocytes
- (C) Blood platelets
- (D) Blood Corpuscles
- 4. Which are the excretory structure in Earthworm?
 - (A) Nephridium

(B) Flame cells

(C) Osculum

- (D) Contractile Vacuole
- 5. Where the antigens for the blood group are situated?
 - (A) On WBC

(B) Blood plasma

(C) On RBC

(D) Blood platelets

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6.	Which of the following is not a Natural Satellite?				
0.	(A)	Triton	(B)		
	(C)		(D)	Sheron	
_	***	Endoscopy for a	hock	ing the internal body parts of	
7.	What is used in Endoscopy for checking the internal body part human beings in medical field?			ing the internal body parts of	
	num (A)		(B)	Photochromatic glass	
	(C)		(D)		
•	Who invented (constructed) the pH scale?				
8.				Sorensen	
	(A)	Boyle		Guldberg	
	(C)	Lewis	(2)	Out. and a second	
9.	Eating soda's (Baking soda) molecular formula is				
	(A)	NaCl		Na_2CO_3	
	(C)	NaHCO ₃	(D)	CaCO ₃	
			0-1-		
10.		ch is the bluish planet of the			
	(A)	•		Saturn	
	(C)	Venus	(D)	Neptune	
11.	Wha	at is manufactured (prepared) fror	n Cobalt steel?	
	(A)	Transformer	(B)	Electro-magnet	
	(C)	Helmet	(D)	Permanent magnet	
12.	Wh	ich catalyst is used in the pr	epara	ation of vegetable ghee (Dalda)	
	fror	n vegetable oil by hydrogena	tion p	process ?	
	(A)	Nickel	(B)	Chromium	
	(C)	Nichrome	(D)	Manganese	
13.	Wh	at is the unit of Rate of Reac	tion ?	•	
	(A)			Second	
	(C)		(D)	Minute	
14.	Wh	ich ions are free in acid as pe	r Arı	henius opinion ?	
17.		H ⁺	(B)		
			4	0-	
	(C)	N ⁻	(D)	· ·	

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15.		Which pigment is responsible for photoperiodism in plants?				
	(A) (C)		(B) (D)	Ethylene Phytochrome		
16.	In w	In which organism the nerve net is found?				
	(A)			Hydra		
	(C)	Earthworm	(D)	Cockroach		
17.		The hormones secreted by Hypothalamus regulates the functioning of which gland?				
	(A)	Pituitary	(B)	Thyroid		
	(C)	Thymus	(D)	Pancreas		
18.	By know	•	syst	tem contains part of plant is		
	(A)	Stock	(B)	Scion		
	(C)	Sucker	(D)	Rhizome		
19.	and	cerebellum are connected by	the t			
		Spinal cord	(B)	Pons		
	(C)	Medulla Oblongata	(D)	In heart		
20.		at is the diameter of Hydrogen				
	, ,	1.0 nm		0.1 nm		
	(C)	2.0 nm	(D)	0.2 nm		
21.		-		icity is transformed into light?		
		Nanotubes		Nanocrystal		
	(C)	Nanocomposite	(D)	Nano fabrication	-	
22.	How many times greater is the thermal conductivity of Carbon nanotube than Silver?					
	(A)			100		
	(C)	1,000	(D)	10,000		
23.		t is the velocity of Light in ve				
	(A)	$3 \times 10^6 \text{ ms}^{-1}$	(B)	$3 \times 10^7 \mathrm{ms}^{-1}$		
	(C)	$3 \times 10^8 \text{ ms}^{-1}$	(D)	$3 \times 10^9 \text{ ms}^{-1}$		
24.		ch coloured light is least devia prism ?	ated i	n a spectrum obtained through		
	-	Violet	(B)	Blue ·		
	(C)	Red	(D)	Yellow		
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25.	What is the name of the hormone secreted by Testis?				
	(A)	Progesterone	(B)	Oestrogen	
	(C)	Insulin	(D)	Testosterone	
26.	Whi	Which mineral element is responsible for Minamata?			
	(A)	Mercury		Lead	
	(C)	Copper		Zinc	
27	In fo	In female, the time period of 45-50 years of age is known by			
21.	(A)	Menstruation		Menopause	
	, -	Gestation period		Lactation	
	(0)	Gestation period	(D)	Lactation	
28.	From which year the Forest Conservation Act was implemented?				
	(A)	1980	(B)	1986	
	(C)	1972	(D)	1968	
20	1177 -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		D.11: 1 0	
29.		ch disease is caused due to T			
	(A)	AIDS		Syphilis	
	(C)	Gonorrhoea	(D)	Hepatitis	
30.	Who proposed the 'mutation theory'?				
	(A)	Weismann	(B)	Lamarck	
	(C)	Darwin	(D)	Hugo Deveries	
31.	Whi	ch type of chromosome posse	sses s	satellite?	
	(A)	Telocentric		Acrocentric	
		Sub-metacentric		Metacentric	
20	Wh:	Which of the following shows regeneration?			
J2.	(A)	Amoeba	(B)		
	/	Planeria			
	(0)	i ialiei ia	(D)	Rhizopus	
33.	In v	which organism, high incu	batio	n temperature results in the	
	deve	lopment of male?			
	(A)	Tortoise	(B)	Lizard	
	(C)	Grasshopper	(D)	Human	

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34. Which is the monomer of Natural Rubb
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(A) Chloroprene

(B) Neoprene

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(C) Isoprene

(D) Polythene

35. Which alloy is used to prepare Scientific Balance?

(A) Steel

(B) Stainless steel

(C) Brass

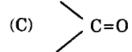
(D) Magnelium

(A) — CHO

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(B) — OH



(D) C — C

(A) Methanal

(B) Methanol

(C) Propanol

(D) Acetone

(A) Bauxite

(B) Limonite

(C) Cryolite

(D) Haemetite

(A) Bromine

(B) Mercury

(C) Chlorine

(D) Sulphur

0. What is the chemical formula of Bleaching powder?

(A) CaCl₂

(B) CaOCl₂

(C) Ca(OH)₂

(D) CaSO₄

(A) HCl

(B) HNO₃

(C) H_2SO_4

(D) H_2SO_3

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42.	Who gave the principle of Electromagnetic Induction?					
		Faraday	_	Oersted		
		Volta		Ampere		
	,		,			
43.	1 an	nu mass = eV.				
	(A)	931.48	(B)	931.84		
	(C)	913.48	(D)	913.84		
44	0	-1	.			
44.		electric heater having 50Ω reached how much electric current v		-		
		4.4 A	-	44 A		
	(r	0.44 A	.	4.04 A		
	(0)	0.44 A	(D)	4.04 A		
45.	Who	Who did the successful experiment of artifical nuclear conversion for				
	the	first time?				
	(A)	Fermi	(B)	Rutherford		
	(C)	Hahn	(D)	Strassman		
46.	Whi	ch source of energy is consid	ered	as competant (great) source in		
	futu					
	(A)	Geothermal Energy	(B)	Natural Gas		
	(C)	Hydrogen	(D)	Biogas		
47.	Whi	Which lens is used by the person having the defect of vision				
		sightedness'?				
	(A)	Convex lens	(B)	Concave lens		
	(C)	Cylindrical lens	(D)	Bifocal lens		
		-				
48.		ch scientist gave the informa	tion a	about electron for the		
		first time?				
	(A)		(B)	Volta		
	(C)	Ampere	(D)	Thompson		
49.	At v	At which place, the image of the object is formed in human eye?				
	(A)	Pupil	-	Cornea		
	(C)	•	, ,	Retina		
	(3)		,			
50.	Wha	at is the unit of Electric charg	ge?			
	(A)	Ampere	(B)	Coulomb		
	(C)	Volt	(D)	Ohm		

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PART - B

Time: 2.00 Hours] [N

[Maximum Marks: 50

Instructions :-

- (i) This question paper contains 4 sections and total 18 questions.
- (ii) All questions are compulsory with internal options.
- (iii) As per instruction, draw clear, clean and proportionate diagrams & label them.
- (iv) Figures on the right side indicate marks.

SECTION - A

Questions from No. 1 to 5 are Short answer type questions.

Answer each in maximum word limit of 30 words. (Each carries 2 marks)

- 1. Write main differences between AC and DC current.

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2. Give brief information about Mars.

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O

- 2. Write short note on 'Galaxy'.
- 3. Write the method of latest industrial production of Ethenoic acid.
- 2

4. Write uses of Washing soda.

2

OR

- 4. Write method of preparation of Bleaching powder with equation.
- 5. Write physical properties of Non-metals.

2

SECTION - B

Questions from No. 6 to 10 are Short answer type questions. Answer each of them in the word limit of 30 words. (Each carries 2 marks)

- 6. State the working (functioning) of Space Shuttle in space.
- 7. State the criteria for Chemical Equilibrium.

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