

N-11 (E)

(MARCH, 2011)

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Set No. Of			
Question Paper			
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11	5		

PART - A

Time: 75 minutes]

[Maximum Marks: 50

Instructions:

- (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. From which kind of Steel is the permanent magnet prepared?
 - (A) Silica steel
- (B) Stainless steel
- (C) Cobalt steel
- (D) Manganese steel
- **2.** What is the pH of pure water at 25°C temperature?
 - (A) 14

(B) 7

(C) 10

- (D) 1
- 3. What is the chemical formula of Borax?
 - (A) $Na_2B_4O_7 \cdot 10H_2O$
- (B) $Na_2CO_3 \cdot H_2O$
- (C) Na₂CO₃·10H₂O
- (D) Na₂B₄O₇·7H₂O
- 4. What is used in Endoscope?
 - (A) Photochromic Glass
- (B) Optical Glass
- (C) Pyrex Glass
- (D) Optical Fibres
- **5.** What percentage of Gypsum is added in the preparation of Cement?
 - (A) 2% to 5%

(B) 0.2% to 1.5%

(C) 6% to 8%

(D) 8% to 10%

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P.T.O.



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Unfold Every Question

ь.		at is the excretion structure	ın Ar	noeba?
	(A)	Contractile Vacuole	(B)	Flame Cells
	(C)	Nephridia	(D)	
7.	In a	ingiospermic plants, what st	ructu	res are present for the transport
	of V	Vater?		
	(A)	Tracheid	(B)	Trachea
	(C)	Sieve tube	(D)	Companion cell
8.	Whi	ch of the following tropism	is re	sponsible for the germination of
		en grains and the developme	ent of	pollen tubes?
	(A)		(B)	Thigmotropism
	(C)	Phototropism	(D)	Hydrotropism
•	***	1 011 011		
9.		ch of the following is a grow		
	(A)		(B)	Ethylene
	(C)	Abscisic acid	(D)	Auxitocin
10.	TX7 L:	ch nim and in the city		Serio and the control of the control
10.	VVIII	ch pigment is responsible for	r the	Photoperiodic stimulus in
	plan			age and the number in Carl it shee
		Phytochrome	(B)	Chloroplast
	(C)	Carotene	(D)	Cytochrome
11.	Wha	t is the IUPAC name of Acet		a base of both down to the
11.	(A)	Methanoic acid		
	(C)	Propanoic acid	(B)	Ethanoic acid
	(0)	r ropanote acid	(D)	Butanoic acid
12.	Wha	t is the reaction between	Carbo	oxylic acid and Ethanol in the
	prese	ence of H ₂ SO ₄ known as?		only no dold and Ethanor in the
	(A)	Saponification	(D)	Estaniciant:
	(C)	Polymerisation	(B)	
	(0)	1 Olymerisation	(D)	Dissociation of water
13.	Whic	ch functional group is connec	ted t	o Hydrocarbon in Soan ?
	(A)	-COONa	(B)	
		-СООН		
	(0)	-00011	(D)	-SO ₃ Na
14.	Whic	h of the following mode of n	utviti	on door a Dat have 2
		Herbivorous		Carnivorous
		Omnivorous	(D)	
	(0)	Ommvorous.	(D)	Grazing
15.	Wher	e are the antigens for the bl	ond e	roun located?
		Lymphocyte	(B)	W.B.C.
		Blood Platelets		R.B.C.
			(D)	10.0.
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16.	Which disease is caused by the bacteria named Treponema pallidum?				
	(A)	AIDS	(B)	Gonorrhoea	
	(C)	Syphilis	(D)	Hepatitis	
				What is the angle of incidence or	.01
17.	Whi	ch of the following pr	rotects the en	abryo during its development?	
	(A)	Amnion	(B)	Liver	
	(C)	Umbilical cord	(D)	Uterus	
			manus a draw		
18.	The	plant in which graft	ing is done, is	called	
	(A)	Scion	(B)	Root	
	(C)	Stock	19/01V (D)	Root-tip	
19.	Wha	t is the period from t	he developme	nt of foetus till the birth, called?	
	(A)	Gestation	(B)	Embryonic development	
	(C)		(D)	Fertilisation (A)	
				(C) Cylindrical leas	
20.	Whi		loys is used in	n making Currency coins?	
	(A)	Brass	(B)	Steel	
	(C)	Solder	(D)	Magnalium	
				(A) World be	
21.			ed, when Car	bon-dioxide is dissolved	
		ater?	a bengunada	Which of the Calcuming sense of	
	(A)	Carbonic acid	(B)	Carboxylic acid	
	(C)	Carbon-di-sulphide	(D)	Acetic acid	
00	***		11 1 .		
22.				itates the eyes and nose?	1
		Carbon-monoxide			v A 6
	(C)	Nitrogen	(D)	Carbon-dioxide	
23.	Who	t is the shape of mon	oolinia Culub		
20.	(A)	t is the shape of mon Triangular pyramid		ur? Needle shaped	
	(C)	Quadrangular		Octahedral	
	(0)	Quaurangular	(D)	Octaneural William B. A.	
24.	Whice	ch enzyme converts r	nilk into aurd	2 (A)	
_ 1.		Lactase	(B)	Invertase	
	(C)	Zymase	(D)	Cellulose	
	(0)	Ly masc	(D)	Centitiose	

25.	The	magnitude of a Quantum do	t is		
	(A)	10 A°		100 A°	
	(C)	5 nm	(D)	50 nm	
26.	What is the angle of incidence called when the angle of refraction is 90°?				
	(A)	Angle of Refraction	(B)	Angle of Deviation	
	(C)	Critical Angle	(D)	Angle of Incidence	
27.	In the dispersion of light through a prism, which coloured radeviates the most?				
	(A)	Red	(B)	Yellow	
	(C)	Blue	(D)	Violet	
28.	Whie		d by	the person having Far-sighted	
	(A)	Convex lens	(B)	Concave lens	
	(C)	Cylindrical lens	(D)	Bi-focal lens	
29.		n Astronomical Telescope, wh pared to the focal length of it		the focal length of objective as -piece?	
	(A)	Large (longer)	(B)	Shorter	
	(C)	Equal Figure 1 share in the same of the sa	(D)	Infinity	
30.	Whi	ch of the following scientists	disco	vered the Phonograph?	
	(A)	Michael Faraday	(B)	Thomas Alva Edison	
	(C)	Einstein	(D)	Humphry Davy	
31.		e the value of one unit of electric use).	etricit	ty used for household purpose	
	(A)	1 Joule	(B)	1 Watt second	
	(C)			$3.6 \times 10^6 \text{ kWh}$	
32.	Whi	ch of the following shows Oh		aw? Same rate ustransin (1916)	
				$I = \frac{R}{V}$	
	(C)	V = IR	(D)	$R = \frac{P}{I^2}$	
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33.		Which instrument is used to determine the presence of electric current?				
	(A)	Electric Generator	(B)	Galvanometer		
	(C)	Fuse	(D)			
34.		ich reaction takes place etrolysis process?	at posi	tive electrode (anode) during		
	(A)	Oxidation	(B)	Reduction		
	(C)	Oxidation-Reduction	(D)	Equilibrium		
35.	Whi	ch of the following metals	exists in	n liquid state?		
	(A)	Aluminium		Gallium		
	(C)	Potassium		Radium		
36.	Wha	at is the colour of the wire	used for	r Earthing?		
	(A)	Red	(B)	Black		
	(C)	Green		Yellow		
37.	Wha	at kind of current is obtain	ned from	a Battery ?		
	(A)		(B)			
	(C)	AC and DC both	(D)	Depends on the type of battery		
38.		many small mirrors are int Louis in France?	used in	the Solar furnace installed at		
	(A)	4500	(B)	3500		
	(C)	3000	(D)	2500		
39.	Whi	ch of the following is the b	est qual	ity Coal?		
	(A)	Lignite	(B)			
	(C)	Anthracite	(D)	Peat Show Shows (A)		
10.	How	many satellites does the	planet M			
	(A)	30 pollostoco at reti	(B)			
	(C)	Absorption of the leaves 8		(C) Electric datic productor		
1.	Whic	ch planet is totally made u				
	(A)	Mars	The state of the s	Venus		
	(C)	Saturn		Pluto		
		ste far ty some that the self	S. HELDER			
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42.	Which of the following satellite gives information regarding the life in Oceans and the environment around it?			
		INSAT - 4A		METSAT
	(A)			EDUSAT
	(C)	RESOURCESAT	HEU MENT	
40	XX7L:	ah of the following Rocks	evilland i	a Space-Shuttle?
43.		Columbia	(R)	Challenger
		Columbia	obialo (D)	Discovery
	(0)	Polar Satellite Launch V	efficie (D)	Discovery
44.	Wha	at is the unit of the rate of	of reaction	35. Which of the following metals?
	(A)	Molar	(B)	Second
	(C)	Molar / Second	(D)	Second / Molar
	1019.1			
45.	Wha	at is the helical length of	each DNA	A molecule?
	(A)		(B)	20 A°
	(C)	3.4 A° wol	(D)	34 A°
46.			ures from	one generation to another
	calle		DA (B)	(A) DC current
	(A)	Variation		Evolution and Oct the OA (7)
	(C)		(D)	
	1	Solar formace matalled	ed in the	where become male animal at
47.		ner temperature?	oes the e	mbryo become male animal at
	(A)		(B)	Lizard
	(C)		(D)	Rabbit
	(0)	Grassnopper		and add at a presented out to dailed a
48.	Wh	ich gas in the atmospher	e is respon	nsible for Acid-rain?
10.	(A)	Nitrous oxide		Carbon-monoxide
	(C)	Sulphur-dioxide	(D)	Methane
		10 soules and		O. How many satellites does the bla
49.	By	which method is the part	ticulate po	ollutants controlled?
		Combustion		
	(C)	Electrostatic precipitat	or (D)	Sedimentation
			archyH le	1. Which planet is totally made up
50.	Ho	w many pairs of Spinal ne	erves arise	e from the human Spinal Cord?
	(A)		(D)	21 munte2 (O)
	(C)	23	(D)	31
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PART - B

Time: 2.00 Hours! [Maximum Marks: 50 Instructions:-There are total four sections in this part. (ii) All questions are compulsory. (iii) Draw neat labelled diagram as per instructions. There are internal options in some questions. Pay attention to them. (iv)Figures to the right indicate marks. (v) **SECTION - A** Questions from 1 to 5 are Short answer type questions. Write answer to each using maximum 30 words. Each question carries 2 marks. 1. State the benefits of Nano technology to mankind. 2 2. Write short notes on Bio-gas. 2 3. What do you understand by Fossil Fuel? Name some fossil fuels. 2 OR 3. Name the Atomic energy research centre in India. State the places in India, where the Nuclear Power plants are situated. State the characteristics of Terrestrial Planets. 4. 2 $49 \text{ gm of } H_2SO_4$ is dissolved in 5 litres solvent. Find the Molarity 5. of the solution. (Molecular weight of H_2SO_4 is 98 gm/mole) What do you understand by Forward and Reverse reaction? Explain. 5. **SECTION - B** Questions from 6 to 10 are Short answer type questions. Use maximum 30 words to answer them. Each question carries 2 marks. State the criteria for Chemical Equilibrium. 2 N-11(E) P.T.O.

7.	State the uses of Bleaching Powder.	2
8.	Write the preparation of Methanal. (Formaldehyde - HCHO)	2
0.	OR	
8.	Explain the industrial preparation of Propanone.	
9.	Explain the Reflex Arc.	2
10.	Name the environmental problems.	2
	SECTION - C	
and the second	stions from 11 to 15 are Short answer type questions. Use maxiwords to answer them. Each question carries 3 marks.	mum
11.	Describe the construction of Voltaic cell with a neat diagram. OR	3
11.	Explain Electrolysis. Write Faraday's laws of Electrolysis.	
12.	Discuss in detail the precautions to be taken while using electr What is the work of Fuse?	icity. 3
13.	Describe in short, Frasch method to obtain Sulphur. OR	3 444, 244, 244
13.	Write the uses of Non-metals.	
14.	Explain the phenomenon of Blood-clotting.	3
15.	Explain how vestigeal organs support the theory of Evolution.	3
	SECTION - D	
	stions from 16 to 18 are to be answered in detail using nearly words. Each question carries 5 marks.	dramat.
16.	Describe the Refraction of light through a rectangular glass sla Explain the Lateral Shift.	ab. 5
17.	Describe Hall-Heroult method to get pure Aluminium from Alumina. (Diagram necessary) OR	de no lo
17.	State the different stages of Metallurgy and give information a each in short.	bout
18.	Describe the "Light Phase" of Photosynthesis process. OR	5
18.	Describe the human respiratory system in detail.	
	15	
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