

CEE MODEL ENTRANCE EXAM

(SET-7)

Instructions:

- There are 200 multiple-choice questions, each having four choices of which only one choice is correct.
- Fill (●) the most appropriate one.

Date: 2081/10/12

(Jan 25)

Duration: 3 hours **Time**: 7 A.M. – 10 A.M.



30.	Brass is an alloy of			
	(a) Sn + Cu	(b) $Zn + Cu + Sn$	(c) Cu + Zn	(d) Sn + Ag
31.	Matte contains	. ,		
	(a) Fe	(b) Cu ₂ S	(c) Cu ₂ S and FeS	(d) $CuS + Fe_2S_3$
32.	Which will give borax	bead text with blue bead?		
	(a) Cr ³⁺	(b) Co ³⁺	(c) Ni ²⁺	(d) Cd^{2+}
33.	Two immiscible liquid	ds may be separated by usin	ng	
	(a) Fractionating colum	nn	(b) Separating funnel	
	(c) Vacuum distillation		(d) Steam distillation	
34.	Name the following co	ompound		
	CH_3	ОН		
	$H_3C - CH - CH_2 -$		(1) 1 11 41 1 0	.1 , 1
	(a) 4, 4-dimethyl-1-chlo		(b) 1-chloro-4-hydroxy-2	
25	(c) 1-chloro-4-methyl-2		(d) 1-methyl-4-chloro-4-l	nexanoi
35.	-	te is electrolysed we get	(-) C II	(4) C I I
26	(a) C_2H_2	(b) C ₃ H ₈	(c) C ₂ H ₄	(d) C_2H_6
36.		alkyl halides, the order of		< toutions
	(a) primary < secondar	5	(b) primary > secondary	<u> </u>
27	(c) primary < secondar		(d) primary > secondary	
37.	_	dissolved in dry benzene e		
38.	(a) Aldehyde	(b) Ketone I to dryness for fear of expl	(c) Alcohol	(d) Ether
30.	(a) Peroxides	(b) Ketones	(c) Oxides	(d) Alcohols
39.	` /	nes w.r.t aldehydes is due t	\ <i>\</i>	(u) Alcohols
39.	(a) greater stearic hinds		U	
	(b) greater +I effect but			
	(c) greater +I effect of a			
		ct of alkyl group and greater	r stearic hindrance of alky	d group
	(a) course cuter reme	er er annyr group unta grouter	Pd/H ₂	- 9
40.	In the following reacti	on product formed is CH ₃ C		
			$BaSO_4$	
	(a) acetaldehyde	(b) acetone	(c) carboxylic acid	(d) acetic anhydride
41.		erivatives with nucleophile		DOOD - DOON!!
	(a) $RCONH_2 > RCOOR$		(b) RCOCl > (RCO) ₂ O >	
42.	(c) RCOCl > (RCO) ₂ O > Which of the following		(d) $RCOCl > RCOOR > ($	$(RCO)_2O > RCONH_2$
42.	(a) Al_2O_3	(b) CO ₂	(c) CO	(d) CaO
43.		lytic hydrogenation gives	(c) CO	(u) cuo
201	(a) Propanamine	(b) Isopropyl amine	(c) Ethyl methyl amine	(d) Ethyl amine and CH ₄
44.	· / I	g is known as the artificial		
	(a) Benzene	(b) Aniline	(c) Phenol	(d) Nitrobenzene
45.	Which of the followin	g is a step growth polymer?	?	
	(a) Bakelite	(b) Polyethene	(c) Teflon	(d) PVC
46.	The drug used as an ar			
4-	(a) Luminal	(b) Tofranil	(c) Mescaline	(d) Sulphadiazine
47.	9	lor by mordanting it with c		
10	(a) Ba ²⁺ Coal tar is the main so	(b) Al ³⁺	(c) Cr ³⁺	(d) Fe^{3+}
48.	(a) Cycloalkanes	arce or	(b) Heterocyclic compou	inde
	(c) Aromatic compound	de	(d) Aliphatic compounds	
49.				dium acetate, the reaction is called
	(a) Kolbe's reaction		(b) Perkin's reaction	
	(c) Aldol reaction		(d) Cannizzaro's reaction	n
50.	p-nitrophenol is a stro	nger acid than phenol beca	use nitro group is	
	(a) acidic	(b) electron attracting	(c) electron repelling	(d) basic
51.			measured as 2.5 s using	a stopwatch with the least count 1/2 s, then the
	permissible error in th		\ - 00/	1)
- c	(a) 10%			l) 25%
52.		wing quantities is an axial		I) a continue
E 2	(a) Force			l) acceleration
53.	. A drunkard is walking along a straight road. He takes 5 steps forward and 3 steps backward and so on. Each step is metre long and takes one second. There is a pit on the road 11 metre away from the starting point. The drunkard will			
	into the pit after	ne secona, There is a pit of	i the road II mette away	from the starting point. The didikard will fall
	(a) 21 s	(b) 29 s	c) 31 s (d	d) 41 s
	(, -	\-/ - /-	-, 5	-,

54.	The air friction produces a vertical retardatio	on equal to 10% of the acc	releration due to gravity
	$(g = 10 \text{ ms}^{-2})$. The maximum height will be de		
	(a) 11% (b) 10%	(c) 9%	(d) 8%
55.	A person sitting in an open car moving at co	nstant velocity throws a b	oall vertically up into the air.
	The ball falls (a) outside the car	(b) in the car to the sid	de of the person
	(c) in the car ahead of the person	(d) exactly in the hand	
56.			k. The least number of such planks required just to
	stop the bullet is		,
	(a) 5 (b) 10	(c) 20	(d) 11
57.	The angular momentum of a moving body re		1. 1
	(a) net external force is applied	(b) net pressure is app	
58.	(c) net external torque is applied Two springs of spring constants ke and ke are	(d) net external torque	e is not applied ffective spring constant of the combination is given
50.	by	te joined in series. The en	rective spring constant of the combination is given
		/ \ . •	k_1k_2
	(a) $\sqrt{k_1 k_2}$ (b) $\frac{(k_1 + k_2)}{2}$	(c) $k_1 + k_2$	$(d) \frac{k_1 k_2}{k_1 + k_2}$
59.	A vertical glass capillary tube, open at both	ends, contains some wat	er. Which of the following shapes may be taken by
	the water in the tube?		
60	(a) (b) (c) (d)	26116	
60.	momenta after they have attained terminal v		tht through the atmosphere. Then the ratio of their
	(a) 1:1 (b) 1:4	(c) 1 : 16	(d) 1:32
61.	Which of the following waves is used in son		(a) 1.02
	(a) Light (b) X-rays	(c) Ultrasonic waves	(d) Seismic waves
62.	Beats are the result of		
	(a) diffraction		
	(b) destructive interference		
	(c) constructive and destructive interference(d) superposition of two waves of nearly equa	1 fraguenas	
63.	A star appears yellow. If it starts accelerating		will its colour annear to change?
00.	(a) It will turn gradually red	(b) It will turn gradua	
	(c) Its will turn suddenly red	(d) It will turn sudder	
64.	A bimetallic strip is made of aluminium and		
	(a) remain straight		-
	(b) get twisted		
	(c) will bend with aluminium on concave side		
6 E	(d) will bend with steel on concave side	han muacauna ia inanasad	المراعات المراعات
65.	The freezing point of the liquid decreases what (a) Expands while freezing	(b) Contracts while from	
	(c) Does not change in volume while freezing	(d) None of these	ccznig
66.			d oxygen respectively at a given temperature, then
	(a) $C_N > C_O > C_H$ (b) $C_H > C_N > C_O$	(c) $C_O = C_H = C_N$	(d) $C_O > C_H > C_N$
67.	For nitrogen, $C_p - C_v = x$ and for argon, $C_p - C_v = x$		
60	(a) $x = y$ (b) $x = 7y$	(c) $y = 7x$	(d) x = y/2
68.	-	perature ranges given be	clow. For which temperature range the efficiency is
	maximum? (a) 100 K, 80 K (b) 40 K, 20 K	(c) 60 K, 40 K	(d) 120 K, 100 K
69.	Newton's law of cooling is used in the labora		
03.	(a) specific heat of gases	(b) the latent heat of g	
	(c) specific heat of liquids	(d) latent heat of liqui	
70.	In which of the following cases, man will no		
	(a) concave mirror (b) convex mirror	(c) plane and concave	
71.		to the glass of refractive i	index μ . The ratio of the wavelength of incident and
	refracted waves is		(1)
	(a) 1 : μ (b) 1 : μ ²	(c) μ : 1	(d) 1:1
72.	Stars are not visible in the day time because		
	(a) stars hide behind the sun		
	(b) stars do not reflect sun rays during day(c) stars vanish during the day		
	(d) atmosphere scatters sunlight into a blanket	t of extreme brightness th	rough which faint stars cannot be visible
	. ,	0	-

73.	A thin glass (refractive	index 1.5) lens has optic	al power of -8D in air. It	s optical power in a liquid medium with refractive
	index 1.6 will be	111, 11, 11, 11, 11, 11, 11, 11, 11, 11		
	(a) 1 D	(b) - 1 D	(c) 25 D	(d) – 25 D
74.				
		and aperture of the obje		•
	(b) the focal length of the	ne objective has to be incr	reased	
	(c) the aperture of the o	bjective has to be increas	ed	
		ght has to be decreased		
<i>7</i> 5.	The dual nature of ligh	nt is exhibited by		
	(a) photoelectric effect		(b) refraction and interf	
=-	(c) diffraction and refle		(d) diffraction and phot	
76.				the same charges if the distance between them is
		ey are situated in a medi	um having dielectric con	istalit 4 is
	(a) $\frac{F}{4}$	(b) 4 F	(c) 16 F	(d) F
77.	=	ne of side 'a' if a point ch	arge of q is at one of its o	porner will he
77.		~	~	
	(a) $\frac{2q}{\epsilon_0}$	$(b) \frac{q}{8 \in \mathfrak{g}}$	$(c) \frac{q}{\epsilon_0}$	$(d) \frac{q}{2\epsilon_0} 6a^2$
78.		- 0	rea A at distance d as sh	200
70.	†d	ingenient of 4 plates of a	ica 11 at distance a as sin	OWITH TIE. 13
	*			
		₿		
	(a) $\in_0 A/d$	(b) $2 \in_0 A/d$	(c) $3 \in_0 A/d$	$(d) 4 \in_0 A/d$
79.				radius is reduced to r/n. Its new resistance is
	(a) nR	(b) n ² R	(c) n ³ R	(d) n ⁴ R
80.				R. The current will be maximum in R, if
	(a) $R = r$	(b) R < r	(c) $R > r$	(d) R = r/2
81.	The material of potent	iometer wire is		
	(a) Copper	(b) Steel	(c) Manganin	(d) Aluminium
82.			the magnetic force does	
	(a) charge	(b) mass	(c) velocity	(d) magnetic field
83.				associated with the current will be
	(a) only inside the pipe		(b) only outside the pip	
84.	(c) neither inside nor ou	ugh any closed surface i	(d) both inside and outs	side the pipe
04.	(a) positive	(b) negative	(c) zero	(d) cannot say
85.	\ / I		when a current i flows th	
00.	(a) Li ²	(b) Li ² /2	(c) 2 L i ²	(d) Li ² /4
86.	` /	· ' '		uare value of current will be
00.	(a) 5 A	(b) 2.5 A	(c) $5\sqrt{2}$ A	(d) 10 A
87.	· /	` '		econdary. If voltage per turn is V_P for primary and
07.		•	iry and rig tarns in the si	ceondary. If voltage per turn is varior primary und
	V _S for secondary then	$\frac{1}{V_P}$ is equal to		
	(a) 1	(b) N_S/N_P	(c) N_P/N_S	(d) $(N_P/N_S)^2$
88.			experiment about the ch	
	(a) charge is never quar		(b) charge has no defini	
	(c) charge is quantised		(d) charge on oil drop a	
89.				s ground state $(n = 1)$ and the photons thus emitted
				is 5.1 eV, the stopping potential is estimated to be
	(the energy of the elect	tron in n th state $E_n = -\frac{13.6}{n^2}$	o- eV)	
				(1) = 17
00	(a) 5.1 V	(b) 12.1 V	(c) 17.2 V	(d) 7 V
90.			gets varies with atomic n	getic electron beams. The frequency (f) of the
	_ `			
01	(a) $f \propto \sqrt{Z}$	(b) $f \propto Z^2$	(c) $f \propto Z$	(d) $f \propto Z^{3/2}$
91.		(b) 0 eV	ogen atom, then the ener (c) 3.4 eV	rgy required to remove an electron from n = 2 is (d) 6.8 eV
92.	(a) 10.2 eV	· /		rbit of the hydrogen atom is
<i>)</i> <u>_</u> ,	(a) 2: -1	(b) 1 : - 1	(c) 1:1	(d) 1: -2
93.		. ,		of energy E. The mass of helium formed is
	(a) m + E/c^2		(b) 2 m + E/c^2	60
	(c) E/mc ²		(d) $2 \text{ m} - E/c^2$	
94.	The reaction $_{48}\text{Cd}^{107} \rightarrow$	₄₇ Ag ¹⁰⁷ may occur	•	
	(a) only by electron emi	ission	(b) only by electron cap	
	(c) only by positron em			pture or positron emission

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95.	One curie represents			
			b) 3.7 × 10 ¹⁰ disintegrations/sec	
96.	(c) 106 disintegration/sec During electromagnetic	c interaction, the particles	d) 1 disintegrations/sec exchanged are	
	(a) Nutrions	` '	c) Gravitons	(d) Gluons
97.		and the second s		e μ_h respectively. Which of the following is true?
98.	(a) $\mu_e > \mu_h$ Barrier potential of a n-	(b) $\mu_e < \mu_h$ (or interpretation diode does not	c) $\mu_e = \mu_h$	(d) $\mu e < 0$; $\mu_h > 0$
70.	(a) temperature		c) doping density	(d) diode design
99.	The output is low when (a) OR	either of the input is high (b) NOR (which of the following gates? (d) NAND
100.	Stars derive energy from (a) carbon cycle		c) helium cycle	(d) proton-proton cycle
101.	Presence of recessive tr	aits is 16%. The frequency	of the dominant allele	e in a population is
102.	(a) 0.6 (b) 0.32 (c) 0.84 (d) 0.92			
102.	(a) Reptiles and birds	.13	(b) Birds and mammal	ls.
	(c) Fishes and amphibia	ns	(d) Amphibians and re	
103.	The age of human bein	g belongs to		
	(a) Pliocene	b Pleistocene	(c) Holocene	(d) Miocene
104.	Pre-historic man is			
	(a) Cro-Magnon man		(b) Neanderthal man	
	(c) Homo erectus		(d) Homo Sapiens	
105.		nent of Protozoans ranges		
	(a) $0.2 - 3\mu m/sec.$	(b) $0.4 - 2m/sec$.	(c)15 – 300 μ m/sec.	(d) 8.1 m/sec
106.		odia is found in Amoeba p		
	(a) Lobopodia	(b) Filopodia	(c) Reticulopodia	(d) Axopodia
107.	Which is the Zoonotic p	_	(-) T	(1) To: 1,
100	(a) Euglena	(b) Giardia	(c) Trypanosoma	(d) Trichomonas
108.	(a) Entamoeba histolytic (c) Amoeba		(b) Entamoeba gingiva (d) Trypanosoma	uth attacking gums and teeth? alis
109.	Totipotent cells of spor	nges are		
	(a) Myocytes	(b) Thesocytes	(c) Archaeocytes	(d) Chromocytes
110.	In <i>Hydra</i> , the ovary con	tains		
	(a) Few ova	(b) Single ovum	(c) Sperms	(d) Many ova
111.	· ·	s known as stereo gastrula		(1) 7
	(a) Solid	(b) Hollow	(c) 2-layered	(d) Encapsulated
112.	Miracidium larva occur	•	(-) A i -	(4) M. L. et al. a second to
440	(a) Liver fluke	(b) Tapeworm	(c) Ascaris	(d) Malarial parasite
113.	(a) Plasmodium vivax	ises blood clotting in brain	n of human being? (b) Plasmodium malar	ria.
	(c) Plasmodium falcipar		(d) Plasmodium ovala	
114.	-	iced by sporozoite of Plas		(1) T 1 1
445	(a) Lysolecithin	(b) Proteolytic enzyme	(c) Trypsin	(d) Trypsin and amylase
115.	(a) Blood corpuscles	rious tissues of the earthw	orm by: (b) Plasma	
	(c) Blood corpuscles and	l Plasma	(d) Coelomic fluid	
116.		ll replaces the destroyed c	-	
	(a) Epidermis	(b) Supporting cell	(c) Basal cell	(d) Goblet cell
117.	The parthenogenesis properties (a) Complete	rocess that takes place in t (b) Incomplete	ermites is (c) Artificial	(d) All of them
118.	The best definition of t (a) Single layered blastu (b) Archenteron is form (c) Cells move to occupy (d) Zygote gets converte	ed their definite position	is that, it is a process w	vhere the
119.	The portal system carrie			
	(a) From capillaries (c) From capillaries to ca		(b) From capillaries (d) From liver to intest	tine

120.	Brachial and Musculo - cutaneous veins in frog ur (a) Innominate vein (c) Subclavian vein		nite to form (b) External jugular vein (d) Postcaval vein	
121.	Which vitamin is used	for the formation of Anti-	Venum?	
	(a) Vitamin B ₁₅	(b) Vitamin B ₁₇	(c) Vitamin Q	(d) Vitamin C
122.	Which taste papillae h	· /	()	
	(a) Filiform	(b) Foliate	(c) Circumvallate	(d) Fungiform
123.	A tracheotomy is done (a) throw away from t (c) decorate with ring	rachea	(b) make respiration easi (d) in insert nasogastric	
124.	``			e of epistaxis (nasal bleeding). Nasal septum is
	(a) Ethmoid bone	(b) Vomer	(c) Cartilage	(d) All of the above
125.	` '	` '	.,	ile is eventually reabsorbed back to blood?
	(a) 10%	(b) 25%	(c) 70-80%	(d) 100%
126.	'Decompression sickne	ess' that occurs in divers as	cending rapidly to surfac	ce is associated with the formation of
	(a) Thrombus	(b) Aneurysm	(c) Varicosity	(d) Embolism
127.	Parkinson's disease af	•	,	
,	(a) Brain	(b) lungs	(c) Muscles	(d) kidney
128.	Colour vision in men i	` ' ' ' '	(-)	(1)
120.	(a) Trichromatic	(b) Bichromatic	(c) Monochromatic	(d) Achromatic
120	Otolith is composed of	` '	(c) Monochroniane	(d) Tellionate
129.	-	e (b) Calcium carbonate	(a) Lipid	(d) Protein
120		, ,	(c) Lipid	(a) I rotem
130.		g controls the function of s		(1) Table 1 - 1 - 1
	(a) FSH	(b) ACTH	(c) Estrogen	(d) Testosterone
131.	C	ethral orifice open into	/ \ 1 1 · · · ·	(1) 1 1 1
	(a) Cervix	(b) Vulva	(c) labia majora	(d) labia minora
132.	-	caused by the imbalance of		
	(a) glucose level	(b) oxytocin	(c) Insulin	(d) ADH
133.	Acromegaly results du	e to the excess production	of the following	
	(a) Growth hormone	(b) Insulin	(c) Thyroxine	(d) Adrenaline
134.	Most cost effective and	d extensible applied metho	d of treatment of TB in N	lepal is
	(a) BCG	(b) DOTS	(c) Rifampicin	(d) AZT
135.	Breast cancer is an exa	mple of		
	(a) Sarcoma	(b) Adenoma	(c) Carcinoma	(d) Lymphoma
136.	Tendon is made up of	•		
	(a) Yellow fibrous conn	ective tissue	(b) Adipose tissue	
	(c) Modified white fibre		(d) Areolar tissue	
137.	Ends of long bones are	covered with		
	(a) Muscles	(b) Ligaments	(c) Hyaline cartilage	(d) Elastic cartilage
138.	Sarcomere is the distar	`, 0	())	()
100.	(a) Z-line and Z-line	(b) Two I- bands	(c) Two A- bands	(d) Two surface of Z-lines
139.	Glands and ducts are i	` '	(0)	(1)
139.	(a) Columnar epitheliu		(b) Cuboidal epithelium	
	(c) Ciliated columnar e		(d) Transitional epitheliu	ım
140.		•	•	cross the placenta to the foetus is
110.	(a) naturally acquired a	-	(b) artificially acquired p	
	(c) naturally acquired p		(d) artificially acquired a	active immunity
141.	Anaerobic chemo-hete		· / / / /	,
	(a) Protista	(b) Monera	(c) Animalia	(d) Plantae
142.	Antibiotics cannot be			
	` '	(b)virus	(c) lichen	(d) Bacillus
143.		resent in bacterial cell wall		
	(a)Cellulose	(b) Muramic acid	(c) Glucosamine	(d) Diamino pimelic acid
144.	Common pigments of		/L) _L1 1 11 1 1 1 1	111
	(a) chlorophyll a and chlorophyll b		(b) chlorophyll a and chlorophyll c	
1/5	(c)chlorophyll a and ca		(d) chlorophyll a and xar	шпорнуп
145.	Asexual spore in Spiro (a) Zoospore	(b) Aplanospore	(c) Zygospore	(d) Azygospore
	(a) Loospore	(v) 11pianospore	(c) Lygospore	(a) 1 12 y gospore

146.	Protonema in moss is			
110.	(a) diploid sporophyte		(b) haploid gametophyte	!
	(c)haploid sporophyte		(d) diploid gametophyte	
147.	Kidney-shaped scaly str			
140		(b) protonema	(c) indusium	(d) ramenta
148.	A group of the plant wi (a) fungi	(b) gymnosperms	(c) pteridophytes	(d) bryophyte
149.	Cuscuta is	(b) gynniospernis	(c) pteridopriytes	(d) bryophyte
	(a) root parasite	(b) stem parasite	(c) leaf parasite	(d) partial parasite
150.	Fruit developing from s	. ,	., .	. , 1
	(a)syconus	(b) sorosis	(c) balausta	(d) pepo
151.		igold) belongs to the fami	-	(1) 3.6.1
152.	(a) Solanaceae	(b) Leguminosaeresent in the members of t	(c) Compositae	(d) Malvaceae
132.	(a) tomato	(b) garden pea	(c) sunflower	(d) grasses
153.	Ozone on the earth surf		(c) surmover	(a) grasses
	(a) useful gas		(b) pollutant gas	
	(c) essential for O ₂ forma		(d) required for life	
154.	Endangered plant speci	<u>-</u>	()= 10	(1) 5
155		b) Cycas	(c)Rauwolfia	(d) Pinus
155.	(a) sunlight	of determining vegetation (b) soil	(c) humidity	(d)rainfall
156.		spheric nitrogen into soil		(u)rannan
	(a) nitrification	(b) ammonification	(c) nitrogen fixation	(d) denitrification.
157.	Smallest cell organelle		()	,
	(a) plastid	(b) nucleus	(c) ribosome	(d) dictyosome
158.	Nucleoprotein in anima		(1) 1 1	
	(a) cytoplasmic membra:	ne	(b)nucleolus	
159.	(c) cytoplasm The first living cell was	discovered by	(d) nucleus	
137.	(a) Robert Hooke	(b) Louis Pasteur	(c)Leuwenhoek	(d) Ehrenberg
160.	Direct division of cell is			(1)
	(a)mitosis	(b) meiosis	(c) amitosis	(d) endomitosis
161.	Plant lysosome is			
160	(a)lysosome	(b) glyoxisome	(c) sphaerosome	(d) peroxisome
162.	The primary cell wall d (a) cellulose	(b) lignin	(c) pectin	d) hemicellulose
163.		l phenotypes in polygenic		
2001	(a) 3	(b) 4	(c) 2	(d) 5
164.	Holandric genes are fou	· /		
	(a) Y chromosomes		(b) XY chromosomes	
4.0	(c) X chromosomes		(d) somatic chromosome	es
165.	(a) RNA polymerase I	s assisted by the enzymes	(b) DNA polymerase II	
	(c) DNA polymerase I		(d) Helicase	
166.	A male would be colour	rblind only if	(d) Hencuse	
	(a) father is colourblind	J	(b) father is carrier	
	(c) father is normal		(d) mother is colour blin	d
167.	Subterminal apical mer	-	/ \ .	(1) 1
160	(a) stem	(b) root	(c) branch	(d) leaf
168.	Spongy parenchyma is a (a) stem	(b) leaves	(c) branch	(d) roots
169.	Imbibition is	(b) icaves	(c) branch	(d) 100t3
•	(a) endothermic	(b) exothermic	(c) catabolic	(d) anabolic
170.	Maximum osmotic pres	sure is found in	,	
	(a) hydrophytes	(b) xerophytes	(c) chersophytes	(d) mesophytes
171.	_	plants for the synthesis of	-	
170	(a) 2/3 The minerals involved in	(b) 2/2	(c) 3/5	(d) $5/3$
172.	(a) Mn.	in the photolysis of water (b) Ca	(c) Mg	(d) Zn
173.	Which is essential prod		(~/ -11-6	(~) ====
	(a) H ₂ O	(b) ATP	(c) CO ₂	(d) Ethanol
174.	When RQ becomes less	than unity, then the subs	trate should be	,
	(a) carbohydrate	(b) dry seed	(c) organic acid	(d) lipid

175.	Seed dormancy is associ		/	//\ 11 H: -1
176.	(a) starch Proper chromosome div	(b) ethylene vision occurs during	(c) abscisic acid	(d) gibberellic acid.
177.	(a) Metaphase Which of the following	(b) Anaphase I is not a carbohydrate?	(c) Anaphase II	(d) Telophase
	(a) Tryptophan	(b) Chitin	(c) Cellulose	(d) Glycogen
178.	(a) syngamy	ucleus (PEN) is produced	(b) sexual fertilization	
179.	(c) vegetative fertilizatio Callus is	n	(d) fertilization	
17.7.	(a) mass of differentiated		(b) mass of cells from single origin	
180.	(c)mass of undifferentiat Agar agar is extracted fr		(d) enzymes for breaking callose	
	(a) red algae	(b) blue-green algae	(c) brown algae	(d) green algae
181.	In a certain code lang written in that code?	uage, if INTELLIGEN(CE is written as ETNI	IGILLECNE, then how is MATHEMATICAL
	(a) AMHTMETACILA	Λ	(b) TAMMEHITAL	AC
	(c)HIAMMETALACI		(d) HTAMTAMELA	ACI
182.	Find out the correct a	lternative.		
	bca - b - aabc - a - caa			
	(a) acab	(b) bcbb	(c) cbab	(d) ccab
183.	Which one will replace	ce the question mark?		
	2 2 1 3			
	5 4 5 15			
	5 5 3 ?			
	(a) 11	(b) 19	(c) 15	(d) 22
184.	Which of the following	ng diagrams indicates t	the best relation betw	veen:
	Ant, Insect, Living Be	eings		
	a) b	o) c)	d)	
185.	A and B are married o	couple. C and D are bro	others. C is brother of	f A. How is D related to B?
	(a) Brother in law	(b) Brother	(c) Son in law	(d) Cousin
186.	If the position of the first and third digits within each number are interchanged, which of the following will be the third digit of the second lowest number?			
	519 364 287 158 83	35		
	(a) 9	(b) 5	(c) 7	(d) 8
187.	How many leap years	s do 300 years have?		
	(a) 75	(b) 74	(c) 72	(d) 73
188.	_	One morning after sunrise, Nandita and Ravi were sitting in a lawn with their back towards each other Nandita's shadow fell exactly towards her left hand side. Which direction was Ravi facing?		
	(a) East	(b) West	(c) North	(d) South
189.		, E, and F are sitting in at the right end. Who i	_	is between A and E. B is just to the right of E
	(a) E	(b) C	(c) D	(d) F

190. Each of the questions given below consists of a statement, followed by two arguments numbered I and II. You must decide which of the arguments a 'strong' argument is and which a 'weak' argument is and give an answer to the below:

Statement: Are nuclear families better than joint families?

Arguments:

- I. No. Joint families ensure security and also reduce the burden of work.
- II. Yes. Nuclear families ensure greater freedom.
- a. If only argument I is strong

b. If only argument II is strong

c. If either I or II is strong

d. If both I and II are strong.

191. A vendor bought toffees at 6 per rupee. How many toffees per rupee must he sell to gain 20%?

(a) 3

(b) 4

(c) 5

(d) 6

192. Q is as much younger than R as he is older than T. If the sum of the ages of R and T is 50 years. What is definitely the difference between R and Q's age?

(a) 1 years

(b) 2 years

(c) 25 years

(d) Data inadequate

193. The average of 20 numbers is zero of them, at the most. How many may be greater than zero?

(a) 0

(b) 1

(c) 10

(d) 19

194. A and B can do a piece of work in 40 and 50 days. If they work at it on an alternate day with A beginning, how many days the work will be finished?

(a) 40

(b) 44

(c) $44\frac{2}{5}$

(d) $44\frac{1}{2}$

195. If a 30 m ladder is placed against 15m wall such that it just reaches the top of the wall, then the elevation of the wall is equal to

(a) 30°

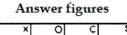
(b) 45°

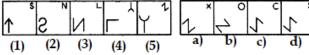
(c) 50°

(d) 60°

196. Select a figure from the Answer Figures which will continue the same series as established by the Problem Figures.

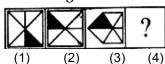
Problem figures



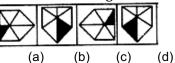


197. Select a suitable figure from the Answer Figures that would replace the question mark (?).

Problem Figures:



Answer Figures:



198. In each of the following questions, select a figure from amongst the four alternatives, which when placed in the blank space of figure (X) would complete the pattern.



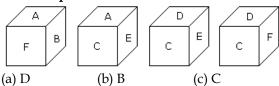
(a)

(b)



(d)

199. From the positions of a cube are shown below, which letter will be on the face opposite to face with 'A'?



200. Find the water image.



(1)







(d) F