

## JE Question paper 2011

## **Based on Memory**

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1.	Which of the follow	ving states of	India has the I	ongest c	oastline?	
	I) Kerala		2) Guj	arat		
	3) Tamil Nadu		4) And	dhra Prac	lesh	
2.	Where was the capi	ital of Ranjit	Singh. the king	of Punj	ab. located?	
	1) Peshawar	2) Amritsar	3) Lah	ore	4) Rav	valpindi
3.	The fundamental	duties are	enshrined in	which	Article of	the Indian
	Constitution?				4	
	1) Article 51 A	2) Article 5	0 A 3) Arti	icle 50 B	4) Arti	icle 51 B
4.	The mineral structu	re of diamon	d is	G		
	1) Zinc	2) Nickel	3) Nitt	rogen	4) Cari	bon
5.	Which part of the b	ody is affecte	ed by Jaundice	?		
	1) Small intestine	2) Liver	3) Stor	mach	4) Pan	creas
6.	Which country of the	he world has	the largest nun	nber of p	ost offices?	
	1) France	2) China	3) Indi	ia	4) Japa	an
7.	Uttar pradesh tops	in the produc	tion of -in Ind	ia.		
	l) sugar cane	2) rice	3) barl	ley	4) whe	eat
8.	The safe temperatu	re to keep eat	ables fresh in	refrigera	tor is	
	1) 4°C	2) 0°C	3) 18°	C	4) 10%	С
9.	The instrument use	d to measure	the blood press	sure of h	uman body	is-
	1) Barometer		2) Alti	meter		
	3) Sphygmomano n	neter	4) Tac	hometer		

1) twist in spring 3) kinetic energy 4) movement of our hands  11. When a television is switched on 1) We listen the sound first and then see the picture 2) We see the picture first and then listen sound 3) It depends on the TV manufacturing company 4) We get audio and visual at the same time  12. Goitre in human body is caused due to deficiency of— 1) Iodine 2) Phosphorus 3) Nitrogen 4) Calcium  13. Who sent Huensant as ambassador in the court of Harsha? 1) Fu Chen-Chu 2) Tai Sung 3) Tung Cuan 4) None of these  14. Who wrote Akbarnama? 1) Faizi 2) Abdul Rahim Khankhana 3) Abul Fazal 4) Abdul Kadir Badayun  15. Which metal is generally used to make electro magnets? 1) Copper 2) Nickel 3) Iron 4) Cobalt  16. Artificial silk is called— 1) Rayon 2) Dacron 3) Fibre glass 4) Nylon  17. Dynamo converts— 1) electrical energy into mechanical energy 2) High voltage into low voltage 3) Low voltage into low voltage 3) Low voltage into high voltage 4) Mechanical energy into electrical energy 11. Barometer 2) Altimeter 3) Ammeter 2) Altimeter 3) Ammeter 4) Anemometer  19. The best conductor of electricity is 1) Aluminium 2) Copper 3) Iron 4) Silver  20. Urea supplies— to the plants. 1) Calcium 2) Phosphorus 3) Potassium 4) Nitrogen	10.	Automatic wrist wa	tches get energy fro	m~	
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			• •	3) Iron	4) Silver
1) Calcium 2) Phosphorus 3) Potassium 4) Nitrogen	20.		-		
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21.	Mica is used in-			
	1) Furnace		2) Electric industry	,
	3) Steel Industry		4) Glass Manufacti	ıring
22.	Which of the follow	ving is a physical ch	ange?	
	1) Burning of cook	ing gas	2) Fermentation of	milk
	3) Digestion of food	d	4) Dissolution of su	ıgar in water
23.	The chemical comp	ound used in photog	graphy is	
	1) Aluminium Hydi	roxide	2) Silver Bromide	
	3) Potassium Nitrat	e	4) Sodium Chloride	e
24.	What causes choler	a?		
	1) Bacteria	2) Virus	3) Fungus	4) Algae
25.	• •	iewing objects lying is obstructed is kno		of the observer and
	1) Photometer	2) Periscope	3) Planimeter	4) Spectrometer
26	Which atom has on		5) I fammeter	4) Spectrometer
20.	1) Potassium	2) Nitrogen	3) Oxygen	4) Hydrogen
27.				the battery is called?
	1) Cathode	2) Electroplate	3) Ion	4) Anode
28.	The organic acid pr		G	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	1) butanoic acid		2) propanoic acid	
	3) methanoic acid		4) ethanoic acid	
29.	•	ving is an example o		
-, -	1) Coke	2) Natural gas	3) Coal gas	4) Producer gas
30.	Water gas consists		-, <b>6</b>	.,
	-	oon monoxide and h	ydrogen	
	2) water vapour and	d coal dust		
	3) a mixture of carb	oon monoxide and n	itrogen	
	4) water vapour and	d methane		
31.	A body strike the f	floor vertically with	a velocity u and re	bounds at the same
	speed. The change	of speed would be-		
	1) 3u	2) Zero	3) u	4) 2u

32.	Which of the following is different from others?			
	I) Speed	2) Time	3) Density	4) Force
33.	Momentum has the	same unit as that of	·_	
	I) torque		2) couple	
	3) impulse		4) moment of mon	entum
34.	What is the momen	tum of a man of ma	ass 75 kg when he w	alks with a uniform
	velocity of 2m/s?			
	1) 50 kg m/s	2) 75 kg m/s	3) 100 kg m/s	4) 150 kg/s
35.	At the centre of the	earth, the value of g	g becomes-	
	1) infinity	2) unity	3) zero	4) None of these
36.	Two unequal masse	-		
	the heavier mass is	the kine	etic energy of the lig	hter mass.
	I) smaller than		2) greater than	
	3) same as		4) none of these	*
37.				e of 300 W runs for
			at the rate of 30 pais	
	1) Rs.31.05	2) Rs.45.55	3) Rs.62.10	4) Rs.75.10
38.	Sheaths are used in		G	
	1) Provide proper in	nsulation	2) Provide mechan	ical strength
	3) Prevent ingress of		4) None of these	
39.	•		ted system. the pass	ive element that can
	be used as interconr	necting element is		
	1) Reactor	6	2) Resistor	
	3) Capacitor	,	4) Resistor and Cap	•
40.		ance of a cable of le	ength 10 km is $1M\Omega$	its resistance for 50
	km length will be-	0.5145	21.0.0.245	0.10.145
	I) MΩ	2) 5 MΩ	3) 0.2 MΩ	4) 10 MΩ
41.				
	1) Force	2) Inertia	3) Moment	4) None of these
42.	If four 80 μF capaci		-	
	<ol> <li>20 μF</li> </ol>	2) 80 μF	3) 160 μF	4) 320 μF

43.	The transformer use	ed to decrease the m	agnitude of the alter	nating voltage is a-
	I) step-up transform	ner	2) stepdown transf	former
	3) step-in transform	er	4) step-out transfor	mer
44.	When two bodies a	re rubbed against ea	ch other	
	1) They acquire equ	ıal and similar charg	ges	
	2) They acquire equ	ial and opposite cha	rges	
	3) They acquire und	equal and similar ch	arges	
	4) They acquire une	equal and opposite c	harges	
45.	Lightning is caused	in the sky due to th	e flow of charge bet	ween-
	1) two oppositely cl	harged clouds		
	2) two similarly cha	arged clouds		
	3) one neutral and o	one charged cloud		
	4) None of the these			
46.	Which of these con	verts s <mark>unlight</mark> direct	ly into electrical ene	rgy?
	1) Solar cooker		2) Solar cell	0
	3) Solar furnace		4) Solar water heat	er
47.	Electric charge can	flow through-		
	1) insulators		2) conductors	
	3) both insulators as		4) neither conducto	
48.		which changes its	direction after fixed	intervals of time is
	called-		a.P.	
	1) induced current		2) direct current	
40	3) alternating curren		4) None of these	
49.	A device used to sta		-	
=0	I) dynamo	2) transformer	3) ammeter	4) generator
50.	Silver is a		2)	
	I) magnetic substan		2) good conductor	of electricity
	3) bad conductor of	-	4) none of these	
51.	An instrument used			4)
<b>53</b>	l) telescope	2) camera	3) microscope	4) periscope
54.	The maximum perc	-		1) IIaliana
	1) Oxygen	2) Nitrogen	3) Carbon dioxide	+) Melium

53.	What is the function	n of Ozone layer?				
	1) Prevents harmfu	l infra-red rays of the	ne sun f <mark>rom reachi</mark> ng	the earth		
	2) Prevents radiation	on escaping the earth	h. hence keeping it w	arm		
	3) It is essential for rainfall					
	4) It filters harmful	l ultra-violet rays o	f the sun			
54.	In the International	system of measure	ment. the 'Kelvin' is	the unit of-		
	l) mass	2) temperature	3) electric current	4) air		
55.	The Sanchi Stupa v	was constructed by-				
	1) Chandragupta	2) Ashoka	3) Kunal	4) Harshavardhan		
56.	The first atomic po	wer plant was starte	ed in India at-			
	1) Narora	2) Tarapur	3) Rawat bhata	4) None of these		
<b>57.</b>	To conserve the ear	tables we use-				
	1) Benzoic acid		2) Sodium chloride	2		
	3) Sodium carbona	te	4) None of these			
58.	The least polluting	fuel is-		*		
	1) Hydrogen	2) Diesel	3) Kerosene	4) Coal		
59.	Malaria spreads by	-		G		
	1) Culex mosquito		2) Anopheles mosc	quito		
	3) Water borne mo	squito	4) None of these			
60.	Heart disease is car	used by increase in-	1 10			
	1) Glucose	2) Cholesterol	3) Heparin	4) Haemoglobin		
61.	Which vitamin help	ps in clotting of blo	od?			
	1) Vitamin B	2) Vitamin B <sub>2</sub>	3) Vitamin K	4) Vitamin D		
62.	The chief source of	f energy is-				
	1) Vitamin	2) Minerals	3) Carbohydrate	4) Water		
63.	The chief centre of	learning during lore	d Buddha era was-			
	1) Nalanda	2) Delhi	3) Varanasi	4) Bodh Gaya		
64.	Mustard is grown i	n-				
	1) Kharif season	2) Rabi season	3) Jayad season	4) Whole year		
65.	In case the posts of President?	President and Vice-	President lie vacant.	who officiates as the		
	1) Speaker of the L	.ok Sabha	2) Chief Justice of	2) Chief Justice of India		
	3) Attorney Genera	al of India	4) Chairman of Ra	jya Sabha		

66.	Magnetic needle dir	rects to-		
	I) East	2) Sky	3) North	4) West
67.	Lord Buddha got er	nancipation (Mahap	ari nirvana) at-	
	l) Kushinagar	2) Lumbini	3) Bodh Gaya	4) Kapilvastu
68.	The colours on a col	lour code resistor are	e green, white, orange	e and silver. Find the
	value of resistor.			
	1) $5.9 \times 10^3 \pm 10\%$		2) $59 \times 10^3 \pm 10\%$	
	3) $590 \times 10^3 \pm 10\%$		4) 5900 × $10^2 \pm 10$	%
69.	The eddy current lo	ss is directly propor	tional to	
	1) Area of metal		2) Volume of metal	
	3) Length of metal		4) Weight of metal	
70.	Direction of dynam	ically induced e.m.f	is given by-	
	I) Lenz's law		2) Flemings right h	and rule
	3) Flemings left har	nd rule	4) Cork screw rule	
71.	The Rowlatt Act. 19		British Government	to:
	() extend the period	of imprisonment for	or Indians	G
	2) close down any i		discretion	to:
	3) release all the po		1921	
	4) detain a person fe		ioui triai	
72.	The latitude of a pla	ace situated on the e		
	1)0°	2) $23\frac{1^{\circ}}{2}$	3) 33 $\frac{1^{\circ}}{2}$	4) $66\frac{1^{\circ}}{2}$
73.	The purpose of in establish:	clusion of Directiv	ve Principles in the	Constitution is to
	1) A Social democra	acy	2) Gandhian democ	cracy
	3) Social and econo	mic democracy	4) Political democr	acy
74.	A fisherman is stran	ided in a lake becaus	se the motor of his n	notor-boat has failed.
	What should he do	to reach the shore?		
	1) He should start v	valking in his boat t	owards the shore	
	2) He should start to	hrowing the fish he	has collected away f	rom the shore
	3) He should lie fla	t on his boat		
	4) He should start the	hrowing the fish he	has collected toward	ls the shore

75.	5. The elements in the portland cement is/are -				
	1) Silica, Alumina a	and Magnesia	2) Lime. Silica and Magnesia		
	3) Lime, Silica and	Iron oxide	4) Lime. Silica and	l Alumina	
76.	The Indian Constitu	ition came into force	e on -		
	1) January 21, 1950	)	2) January 23, 195	0	
	3) January 26, 1950	)	4) January 30, 195	0	
77.	Insulin activates in				
	1) Pancreas	2) Parathyroid	3) Liver	4) Pituitary	
<b>78.</b>	The whole structure	of the world is reg	ulated by –		
	1) Magnetic force		2) Gravitational fo	rce	
	3) Electric force		4) None of these		
79.	In India State Legis	lature includes-			
	1) Legislative Asser	mbly & Legislative			
	2) Legislative Assembly & Council of Ministers 3) Governor, Legislative Assembly & Legislative Council 4) Only Legislative Assembly  2) Which country is on the top in Gold production? 1) China 2) South Africa. 3) Brazil 4) Argentina				
	3) Governor, Legisl	ative Ass <mark>embl</mark> y & L	egislative Council	0.	
	4) Only Legislative	Assembly		G	
80.	Which country is or	n the top in Gold pro	oduction?		
	1) China	2) South Africa	3) Brazil	4) Argentina	
81.	Who wrote "Causes	of the Indian Muti	ny"?		
	1) Sayyid Ahmad K	Jhan	2) D.H.Buchanan		
	3) R.P.Dutt		4) Chittaranjan Da	s	
82.	Ranji Trophy and A	ga Khan Cup are as	ssociated with:		
	1) Cricket and Volle	eyball	2) Badminton and	2) Badminton and Hockey	
	3) Cricket and Foot	ball	4) Cricket and Hoo	key	
83.	Where is the headqu	uarters of the Intern	ational Red Cross C	ommittee?	
	1) Prague	2) Geneva	3) Moscow	4) Berlin	
84.	Which Article in the	e Indian Constitutio	n empowers the Pres	sident to dissolve the	
	Lok Sabha?				
	1) Article 82	2) Article 84	3) Article 85	4) Article 90	
85.	Which among the fe	ollowing countries h	nas made 'euthanasia	' legally valid?	
	1) Newzealand	2) Denmark	3) Australia	4) Netherlands	

Dire	Directions (86-88): Find the missing in the following series.				
86.	6, 10. 27. 52. 153,	?			
	1) 308	2) 305	3) 304	4) 306	
87.	12. 15. 30. 37.5. 75	?			
	1) $93\frac{1}{2}$	2) 93 $\frac{3}{5}$	3) 93 $\frac{3}{4}$	4) 93 $\frac{1}{4}$	
88.	88, 56, 19. ?				
	1) 8	2) 7	3) 10	4) -8	
Dire	ections (89-91): In	the following numb	er series, one of the	e numbers does not	
fit i	nto the series. Find	the wrong number			
89.	7, 9, 16, 27, 47, 77	. 119			
	1) 9	2) 16	3) 77	4) 27	
90.	4, 5, 12, 39, 160, 8	04. 4836			
	1) 12	2) 804	3) 39	4) 4836	
91.	844, 420, 208, 102	. 47, 22.5, 9.25		0.	
	1) 420	2) 208	3) 47	4) 22.5	
92.	In a certain code "that code?	DEVIL" is written a	s ABSEFI. How is	'OTHER" written in	
	I) LRECO	2) LQEBO	3) LWEBU	4) RWKHU	
93.	In a certain code	language "637" med	ins sea is black. "5-	47" means colour is	
		means black color	ur. Which digit in	the language means	
	beautiful?		G,		
Б.	1) 6	2) 4	3) 5	4) 3	
Dire	Directions (94-98): Read the following information to answer the given questions:				
	(i) A. B, C, D. E and F are six family members.				
	(ii) There is one doctor, one lawyer, one pilot, one student and one housewife.				
	(iii) There are two married couples in the family				
	(iv) F who is a lawyer is father of A.				
	(v) B is a pilot and mother of C				
	•	her of C and is a hou	isewife		
	(vii) E is father of				
	(viii) C is brother of	of A			

94.	How many female members are there in the family?				
	1) 3	2) 2		3) 3 or 4	4) None of these
95.	How is A related to	D?			
	1) Granddaughter			2) Grandson	
	3) Son			4) Either granddaug	hter or grandson
96.	Which of the follow	ing statemen	ts is de	finitely true?	
	l) A is engineer			2) E is the father of	the pilot
	3) D is the mother o	f the Pilot		4) F is the father of	the engineer
97.	Who is student?				
	1) Either C or A	2) B's son		3) A	4) C
98.	Which of the follow	ing is one of	the pai	r of married couples	?
	l) FB	2) FA		3) CF	4) FD
Dire	ctions (99-100): Fin	d the wrong	one.		
99.	l) River	2) Pond		3) Well	4) Tank
100.	1) North	2) Right		3) East	4) South
101.	The basis for measu	ring thermod	lynamic	property of tempera	nture is given by-
	1) zeroth law of the	modynamics		2) first law of them	odynamics
	3) second law of the	rmodynamic	S	4) third law of there	nodynamics
102.	One watt is equal to	- /		N	
	1) 1 Nm/s	2) 1 N/mt		3) 1 Nm/t	4) 1 k Nm/mt
103.	Work done is zero for	or the follow	ing prod	cess—	
	1) constant volume		Vn.	2) free expansion	
	3) throttling	4		4) all of the above	
104.	One calorie in kgm	is equal to			
	1) 0.427	2) 4.27		3) 42.7	4) 427
105.	On volume basis, ai	r contains fol	llowing	parts of Oxygen	
	1) 21	2) 23		3) 25	4) 77
106.	Universal gas consta the gas and	ant is defined	l as equ	al to product of the	molecular weight of
	1) specific heat at co	onstant press	ure	2) specific heat at c	onstant volume
	3) ratio of two speci	fic heat		4) gas constant	

107. Strictly speaking all engineering prod	107. Strictly speaking all engineering processes are-			
1) quasi-static	2) thermodynamically in equilibrium			
3) irreversible	4) reversible			
108. In a free expansion process				
1) work done is zero	2) heat transfer is zero			
3) both (1) and (2)	4) work done is zero but heat increases			
109. Which of the following process is irr	reversible process			
1) isothermal 2) adiabatic	3) throttling 4) all of the above			
110. Minimum work in compressor is pos	sible when the value of adiabatic index n is			
equal to-				
1) 0.75	3) 1.27 4) 1.35			
111. In DC motor the direction of induced	emf is opposite to main bars as per-			
fleming's left hand rule	2) lenz's law			
3) fleming's right hand rule	2) lenz's law 4) faradays' law ped by the motor—			
112. The condition for max power develop	ped by the motor-			
1) Eb=v/2	2) Cost losses = variable losses			
3) Both (1) and	4) 4) $1^2$ aRa = mechanical loss			
113. The Ta/la graph of a DC series moto	r is a-			
1) parabola from no load to over load	d CP			
2) straight line through out	30			
3) parabola up to full load and a time	e at over load			
4) parabola through out				
114. 220V shunt motor develops torque	of 54 nM at annature current of 10A. The			
torque produced when the armature of	current is 20A is-			
I) 54 NM 2) 81 N.M	3) 108 N.M 4) 27 N.M			
115. Which type of DC generator is used	in welding machines-			
l) series generator	2) shunt generator			
3) cumulatively compound	4) differential compound			

