SECTION! ENGLISH VERSION

	The 1929 session of Indian National Congress is of significance in the history of the Freedom Movement because the (A) attainment of Self-Government was declared as the objective of the Congress (B) attainment of Poorna Swaraj was adopted as the goal of the Congress (C) Non-Cooperation Movement was launched (D) decision to participate in the Round Table Conference in London was taken		
2.	The movement that came to an abrupt end due to the Chauri Chaura incident was the (A) Wahabi Movement (B) Home Rule Movement (D) Civil Disobedience Movement		
3.	Match the following: P) C.R. Das Q) Vallabh Bhai Patel R) Abdul Ghaffar Khan S) Maulana Azad A) P-2, Q-1, R-4, S-3 (C) P-4, Q-1, R-3, S-2 (D) P-2, Q-1, R-3, S-4		
4.	Money can be spent out of the Consolidated Fund of India (A) with the approval of the President (B) with the approval of the Parliament (C) with the approval of the CAG (D) with the approval of the above authorities		
5.	Which of the following is not a condition for becoming a Citizen of India? (A) Birth (B) Descent (C) Acquiring property (D) Naturalisation		
6.	The Oath of Office is conducted to the President of India by (A) The Speaker of Lok Sabha (B) The Chief Justice of India (C) The Vice-President of India (D) The Prime-Minister of India		
7.	Dew is caused when (A) humid air condenses on cool surface (B) the sky is overcast at night (C) the air is colder than the earth's surface (D) the wind is too dry to cause rainfall		

· (/	A) Bihar Orbett National Park is in Orbett National Park is in Orbett National Park is in		Madhya Pradesh Himachal Pradesh	
(/	Which crop requires water-logging for A) Tea C) Rice	(B)	Coffee Mustard	
(One can open a Savings Account in A) A Nationalised Bank C) a Private Bank	(B)	A Cooperative Bank Reserve Bank of India	
11.	The Term "Inside Trading" is related (A) Share Market (C) Taxation	(B)	Horse racing Public expenditure	
	The term MOM was in news in relat (A) CAG report (C) Mangalyaan	(B)	Asian Games Election Commission	
	Merdeka Cup is associated with (A) International Table Tennis (C) Hockey	(B) (B)	Badminton International Football	
14.	Recently, referendum for independ (A) Hongkong (C) Scotland	(B)	was held in Ireland Germany	
15.	Match Col. X (Sportsperson) and C Col. X P. Jitu Rai Q. Heena Sidhu R. Jwala Gutta S. Yogeshwar Dutt	1.	(Sports): Col. Y Badminton Wrestling Shooting	
	(A) P-3, Q-3, R-1, S-2 (C) P-2, Q-2, R-1, S-3	(D	(a) P-2, Q-3, R-1, S-2 (b) P-3, Q-1, R-1, S-2	
16.	Which of the following celebritic Ambassador" of Telengana? (A) Deepika Pallikal (C) Saina Nehwal		as recently appointed as "Brands) VVS Laxman Sania Mirza	1

17.	(B) name (C) Name	disease confirmed in Volume of Tsunami of anti-terrorist operatorio in African Hills			
18.	BKS Lyenga (A) Yoga (C) Folk S		(B)	world renowned Artist Film Director	
19.	Which Coul Project"?	ntry has recently laund	ched "	'Gandhi Inspired Tourist Attraction	n
	(A) Englar (C) USA	nd		South Africa Japan	
20.	"Swachch B	harat Abhiyan"		ned the logo and slogan of th	е
	(A) Neelar (C) Uday k	n Bhattacharjee (umar	(D)	Anant and Bhagyashree Virman Kohli	
21.	(A) Green, (B) We Ch (C) Diversi	of Asian Games Inche Clean and Friendship eer, We Share, We W ty Shines here mes of Your Life		14 was	
22.	"The "Helma (A) Tobacc (C) Cotton	nd Province" of Afgha	nistan i	is famous for cultivation of Wheat Opium	
23.	(A) to provi (B) to provi (C) to provi	de a bank account to e de a interest free loan de financial assistance de free medical facility	every porto farme	ners al communication	,,
	 Garba : Mohinia Yaksha 	ttam: Odisha gana: Karnataka pairs given above is/a	(B).	ectly matched ? 2 and 3 only 1, 2 and 3	

25.	Devdas and Parinita are Principal literary works by
20.	(A) Rabindra Nath Tagore (B) Sarat Chandra Chatterjee
	(C) Satyajit Ray (D) Munshi Premchand
26.	The capacity of two pots is 120 litres and 56 litres respectively. The capacity of a container which can exactly measure the contents of the two
	pots is (B) 7850 cc
	(A) 7500 cc (B) 7850 cc (D) 9500 cc
27.	A sum of ₹312 was divided among 60 boys and some girls in such a way that each boy gets ₹3.60 and each girl ₹2.40. The number of girls is (A) 35 (B) 40 (C) 60 (D) 65
	The hudget for food was ₹500. But, 5 of
28.	Some students planned a trip. The budget for food was ₹500. But, 5 of them failed to go and thus the cost of food for each member increased by ₹5. How many students attended the trip?
	(A) 15 (B) 20 (C) 25 (D) 30
29.	In a class, there are two sections A and B. If 10 students of section B shift over to section A, the strength of A becomes three times the strength of B.
	Det is 10 students shift over from A 10 D, bottly A and b and
	strength. How many students are there in sections A and b.
	(B) 45 and 15
	(C) 90 and 40 (D) 80 and 40
30.	1250 articles were distributed among students of a class. Each student got twice as many articles as the number of students in that group. The number of students in the group was:
	(B) 45
	(D) 100
	(C) 50
31.	The average of marks of 28 students in Maths was 50. 8 students left the school and then the average increased by 5. What is the average of marks obtained by the students who left the school?
	(B) 42.5
	(A) 51.5
	(C) 45
32	Six persons went to a hotel for meals. Five of them spent ₹32 each on their meals while the 6 th person spent ₹80 more than the average expenditure of all the six. Total money spent by all the persons is:
	(A) ₹192 (C) ₹288 (D) ₹336
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			·	
	(A) 9 days (C) 24 days		21 days 27 days	
40.	A man, a woman and a bo 3 days. If a man alone can do long will a woman take to con	o it in 6 days	s and a bovork?	lete a piece of work in y alone in 18 days, hov
	(C) 5:3:2	L(D)	6:2:3	
	(A) 3:9:2		6:10:1	5
	invests and of what Z invests		-	
39.	X, Y and Z start a business.			
	 (A) ₹75, ₹325, ₹280 (C) ₹90, ₹210, ₹380 	(B)	₹80, ₹120 ₹100, ₹20	
	1 of what C gets. Then their s	snares are r	espectively))
			9	
38.	₹680 is divided among A,B,C	such that A	$\frac{2}{\text{gets}} = \frac{2}{3}$	what B gets and B gets
	percent is (B) 20%	(C)	15%	(D) 12%
37 .	On selling 100 pens, a sho	opkeeper ga	ains price	of 20 pens, His gain
				(D) ₹85
) O .	frame is to be sold at (A) ₹70 (B) ₹72			
36.	If a frame is sold at ₹60, the	ere is a loss	of 15%.	For a profit of 2%, the
	(C) 8.15%	(D)	6.25%	
	(A) 8.35%		7.15%	
35.	In measuring the sides of a remade. The error percent in the	ectangle, er e calculated	rors of 5% area is	and 3% in excess are
	(C) 20 years	(D)	37 years	
	(A) 5 years	A STATE OF THE PARTY OF THE PAR	10 years	
4.	X is 40 years old and Y is 60 yof their ages 3:5?	years old. n	OW IIIally y	reals ago was the ratio
				core aga was the ratio
	(C) 1411	(D)	1250	
	(A) 1079		1380	

	C) 300%	(D)) 400%
4	A) 100%	(B)	200%
47.	f the height of a cone is doubl	ed, then the	ne increase in its volume is
(C) 15200 m ²	(D)	15300 m ²
	A) 15500 m ²	,	15400 m ²
46. T	he perimeters of a circular find the square field is 12100 m ²	, the area	
	C) 15%		
(/	A) 5%	(D)	20%
45. A	ate of interest per annum on o	9680 in 2 compounde	years and ₹10648 in 3 years. The ed basis is
(C) 30 years	(D)	40 years
	A) 15 years	(B)	
a	nnum?		of it at simple interest @10% pe
((c) 60 sec		64 sec
(A	() 50 sec		54 sec
43. Ti	ne speed of a 150 m long trainers as a 600 m long platform?	n is 50 km	nph. How much time will it take to
			mineoned to the entitle beat to
) 5 hrs. 3) 7 hrs.		12 hrs.
34	2 km apart. After how many h	iours will t	hey meet?
	trains annraach aach athai	at 30 km	/hr and 27 km/hr from two places
Le	16 hrs.	(D)	24 hrs.
) 8 hrs.		10 hrs.
		/ mate. \	

A tap can fill a cistern in 8 hours and another tap can empty it in 16 hours.

48.	An angle is one-fifth of its suppleme	ent. The measure of the angle is
	(A) 15° \(\mathbb{B}\) 30°	(C) 75° (D) 150°
49.		r leaning against a wall is 60° and the m the wall. The length of the ladder is
dhuol	(A) 15 m	(B) 14.86 m
	(C) 15.64 mi	(D) 15.8 m
50.	Select the option to replace ? such continued. 6, 13, 25, 51, 101, ?	h that pattern in given number series is
	(A) 201 (B) 202	Vet 203 (D) 205
51.	pattern.	given alphabet series to continue the
	WFB, TGD, QHG, ? (A) NIJ (B) NIK	(C) NJK (D) OIK
52.	In given letter series, some of the that order in options. Select the cor_bcdbc_dcabd_bcdbc_dc_bd	e letters are missing which are given in rrect option.
•	(A) aaaaa	(B) cccc
	(C) bbbbb	(D) ddddd
53.	Select the option that shows similar Attack: Defend	ir relation as between given words.
	(A) Gradual: Abrupt	(B) Sedate: Calm
	(C) Assign: Allot	(D) House: Home
54.	similar.	ition between words on either side is
	Vigilant: Alert:: Viable: ?	(D) Handlage
	(A) Active (C) Feasible	(B) Hopeless (D) Useful
55.	Select the odd one out. (A) Iron (C) Cobalt	(B) Nickel (D) Aluminium

56.	D is taller than C and E. A is not as	tall as E. C is taller than A. D is not as the tallest one?
	tall as R Who among them is next it	Juic concern
•	(A) A	(B) D
`	(C) B or D	(D) C
	Then, he walks 3 km towards Last with reference to his starting point? (A) 5 km West (C) 7 km East	(D) 7 km West
	Directions: (Question No. 58 & option for given classes.	Question No. 59): Choose the Correct
		$(B) \left(Q \right)$
	And the state of t	
	(C)	(D) (J)
	Man Rainas	Answer-(D)
58.	Men, Women, Human Beings	
	- Drofossionals	Answer-(D)
59.		
60.	Select the option to replace? in F Problem Figure	Problem Figure to continue the pattern.
	A CICUITOS	
	Answer Figures	
		(B) (B)
		200
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	A real gas obeys perfect gas law at very 1) High temperatures 2) High pressures 3) Low pressures Which of these Statements is/are correct ?
	(A) 1 alone
62.	Which one of the following is correct? The specific volume of water when heated from 0°C (A) first increases and then decreases (B) first decreases and then increases (C) increases steadily (D) decreases steadily
63.	Two blocks which are at different states are brought into contact with each other and allowed to reach a final state of thermal equilibrium. The final temperature attained is specified by the (A) Zeroth Law of Thermodynamics (B) First Law of Thermodynamics (C) 2 nd Law of Thermodynamics (D) 3 rd Law of Thermodynamics
64.	A composite wall consists of two layers of different materials having conductivities K_1 and K_2 . For equal thickness of the two layers, the equivalent thermal conductivity of the slab will be (A) $K_1 + K_2$ (B) $K_1 K_2$
	(C) $\frac{2K_1K_2}{K_1+K_2}$ (D) $\frac{K_1+K_2}{K_1K_2}$
65.	The presence of nitrogen in the products of combustion ensures that (A) Complete combustion of fuel takes place (B) Incomplete combustion of fuel takes place (C) dry products of combustion are analysed (D) air is used for the combustion
66.	Which one of the following is the most significant property to be considered in the selection of material for the manufacture of locating pins and drill jig bushes used in jigs and fixtures? (A) Wear Resistance (B) Elasticity (C) Shear Strength (D) Tensile Strength
67.	What term is used to designate the direction of the predominant surface pattern produced by machining operation? (A) Roughness (B) Lay (C) Waviness (D) Cut off
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Consider the following Statements.

61.

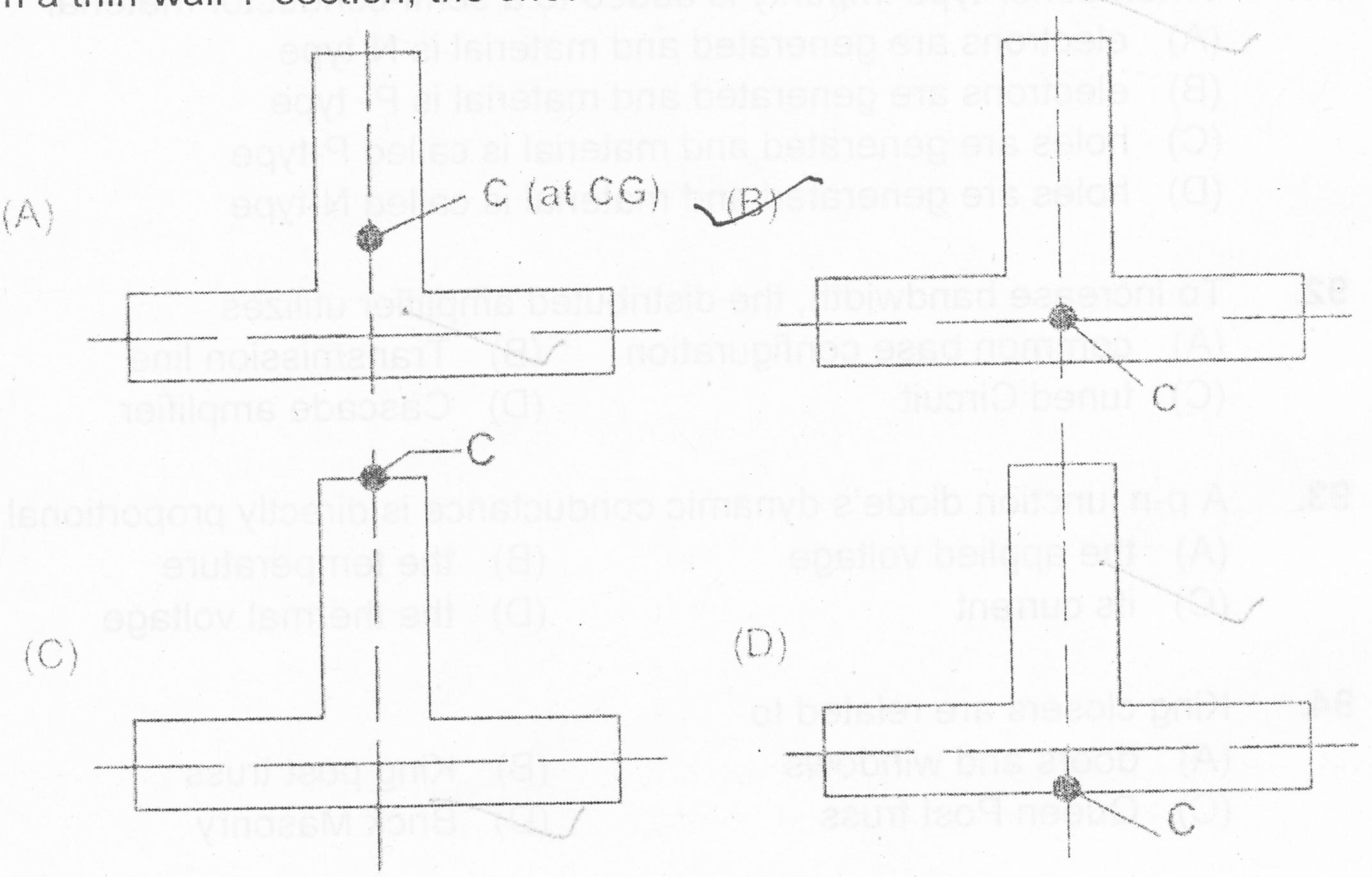
68.	Steady State Heat flow implies (A) negligible flow of heat (B) no difference of temperature between the bodies constant heat flow rate i.e. heat flow rate independent of time (D) uniform rate in temperature rise of a body
69.	What is the main shaft of an engine that controls the movement of piston (A) axle (B) drive shaft (C) crank shaft (D) cam shaft
70.	For small and intricate castings, the sand grains should be (A) fine (B) medium (C) coarse (D) rounded
71.	In Submerged Arc Welding, the arc is produced between (A) a bare metal electrode and work piece (B) a tungsten electrode and work piece (C) a carbon electrode and work piece (D) any type of electrode can be used
72.	For Welding process, which is NOT correct. (A) Welding size depends on contact area of the face of Electrodes (B) Metal fusion takes place by raising the temperature to fusion point (C) In Pressure welding, the ends of metals pieces are joined in Elastic state (D) Gas flame is used as heat source in gas welding
73.	In overhead welding position, which is correct option. (A) work pieces lie flat, welding is done from upper side of joint (B) welding is performed from the underside of joint (C) this position is most simple operation as compared to flat position (D) most suitable for Submerged Arc process
74.	Soft iron is used in the manufacture of electromagnets because of its (A) high saturation magnetisation only (B) low retentivity only (C) low coercive field only (D) high saturation magnetisation, low retentivity and low coercive field
75.	Which of the following is piezo-electric material? (A) Quartz (B) Silica Sand (C) Corundum (D) Polystyrene
4	

voltages? A Star-Delta (C) Delta-Delta (B) Star-Star (C) Delta-Delta (D) Delta-Zigzag 77. If two conductors carry current in the same direction (A) Conductors are in resonance (C) Conductors repel each other (D) Voltage between two conductors increases 78. According to Joule's Law, heat energy produced by a Current I while flowing through a conductor of Resistance R for a Length L and Time T, is proportional to (A) T only (B) 12RT (C) 12RL (D) IRL2 79. Reciprocal of magnetic permeability is (A) Conductance (C) Reluctivity (D) Permittivity 80. A material is said to have become superconductor when (A) its resistance becomes negative (B) its resistance decreases (D) its resistance decreases (D) its resistance becomes zero 81. When a given transformer is operating at its rated voltage with reduced frequency, its (A) Iron losses are reduced (B) Flux density remains unaffected (C) Core flux density is increased (D) Core flux density is reduced 82. The armature core of a d.c. machine is usually made of laminated sheets in order to (A) reduce hysteresis loss (B) reduce armature copper losses (C) reduce eddy current (D) increases its surface area for better dissipation of heat 83. To reduce air pollution due to smoke, are used in thermal power plants.	16	incommode connection can be used in a track
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(A) Tonly (C) I ² RL (D) IRL ² 79. Reciprocal of magnetic permeability is (A) Conductance (B) Susceptance (C) Reluctivity (D) Permittivity 80. A material is said to have become superconductor when (A) its resistance becomes regative (B) its resistance becomes very small (C) its resistance decreases (D) its resistance becomes zero 81. When a given transformer is operating at its rated voltage with reduced frequency, its (A) Iron losses are reduced (B) Flux density remains unaffected (C) Core flux density is increased (D) Core flux density is reduced 82. The armature core of a d.c. machine is usually made of laminated sheets in order to (A) reduce hysteresis loss (B) reduce armature copper losses (C) reduce eddy current (D) increases its surface area for better dissipation of heat 83. To reduce air pollution due to smoke, are used in thermal power plants.		flowing through a conductor of Resistance R for a Longth Land Till while
(C) I²RL (D) IRL² 79. Reciprocal of magnetic permeability is (A) Conductance (B) Susceptance (C) Reluctivity (D) Permittivity 80. A material is said to have become superconductor when (A) its resistance becomes negative (B) its resistance becomes very small (C) its resistance decreases (D) its resistance becomes zero 81. When a given transformer is operating at its rated voltage with reduced frequency, its (A) Iron losses are reduced (B) Flux density remains unaffected (C) Core flux density is increased (D) Core flux density is reduced 82. The armature core of a d.c. machine is usually made of laminated sheets in order to (A) reduce hysteresis loss (B) reduce armature copper losses (C) reduce eddy current (D) increases its surface area for better dissipation of heat 83. To reduce air pollution due to smoke, are used in thermal power plants.		
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Core flux density is increased (D) Core flux density is reduced 82. The armature core of a d.c. machine is usually made of laminated sheets in order to (A) reduce hysteresis loss (B) reduce armature copper losses (C) reduce eddy current (D) increases its surface area for better dissipation of heat 83. To reduce air pollution due to smoke, are used in thermal power plants.		
82. The armature core of a d.c. machine is usually made of laminated sheets in order to (A) reduce hysteresis loss (B) reduce armature copper losses (C) reduce eddy current (D) increases its surface area for better dissipation of heat 83. To reduce air pollution due to smoke, are used in thermal power plants.		(A) Iron losses are reduced (B) Flux density remains unaffected
The armature core of a d.c. machine is usually made of laminated sheets in order to (A) reduce hysteresis loss (B) reduce armature copper losses (C) reduce eddy current (D) increases its surface area for better dissipation of heat 83. To reduce air pollution due to smoke, are used in thermal power plants.		Core flux density is increased (D) Core flux density is reduced
(A) reduce hysteresis loss (B) reduce armature copper losses (C) reduce eddy current (D) increases its surface area for better dissipation of heat 83. To reduce air pollution due to smoke, are used in thermal power plants.	82.	
(A) reduce hysteresis loss (B) reduce armature copper losses (C) reduce eddy current (D) increases its surface area for better dissipation of heat 83. To reduce air pollution due to smoke, are used in thermal power plants.		in order to
(B) reduce armature copper losses (C) reduce eddy current (D) increases its surface area for better dissipation of heat 83. To reduce air pollution due to smoke, are used in thermal power plants.		
(D) increases its surface area for better dissipation of heat To reduce air pollution due to smoke, are used in thermal	1	(B) reduce armature copper losses
(D) increases its surface area for better dissipation of heat 83. To reduce air pollution due to smoke, are used in thermal	1	(C) reduce eddy current
70 reduce air pollution due to smoke, are used in thermal		
power plants.		The state of the s
power plants.	03.	nower plants
		power plants.
(C) induced draft fans (B) superheaters (C) Flectrostatic procinitators		(C) induced draft force (B) superheaters
(C) induced draft fans (B) superheaters (D) Electrostatic precipitators		(b) Electrostatic precipitators
	-000	
	SGOO	A A A

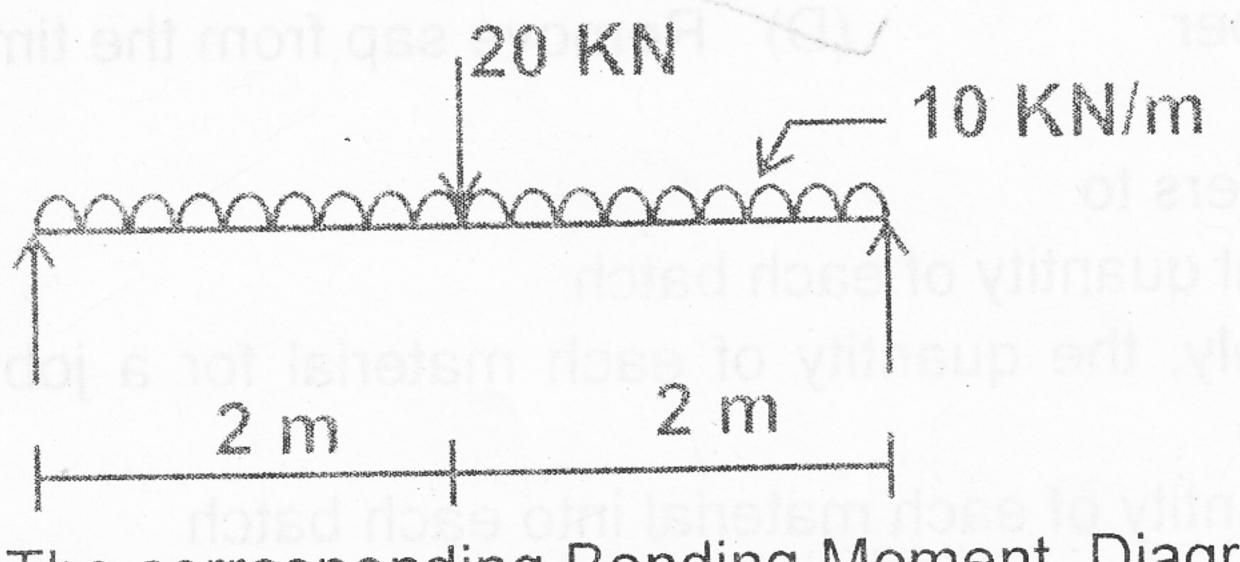
84.	Match Col. X (Instrument) with	Col. Y (Us	
	Col. X		Col. Y
	P Transformer	1	Measures Current
	Q Rectifier	2.	Insulation Resistance
	R Ammeter	3.	Steps down Voltage
	S Megger meter	4.	Converts AC input to Unipolar output
	(A) P-3, Q-4, R-1, S-2 (C) P-4, Q-3, R-2, S-1	' '	P-3, Q-1, R-4, S-2 P-3, Q-1, R-2, S-4
85.	FET is a device which has (A) high input impedance and (B) low input impedance and input impedance and (D) low input impedance and input impeda	s voltage is voltage	controlled
86.	Which gate corresponds to the (A) AND gate (C) NAND gate	Y(B)	oarallel switches? OR gate NOR gate
87.	Which of the following contribut (A) Non-linearity in active dev (C) presence of noise		nonics distortion in amplifiers? defective device positive feedback
88.	Select the Statement which is N (A) The magnetic amplifier is (B) A transistor is composed (C) p-n diode is based upon p (D) Potentiometer controls au	device for of semicon -n junction	amplifying electrical signals iductor material
89.	The main advantage of a bridg tapped transformer is (A) less ripple (B) No transformer is needed (C) peak inverse voltage of each (D) PIV of each diode is doub	ach diode i	over full wave rectifier with centre
90.	Wheatstone bridge is used to not (A) low values of current and (B) high values of current (C) Low value of voltages (D) resistance values	high value	ansi ikab beadani (A)

91.	 (A) electrons are generated and material is N-type (B) electrons are generated and material is P- type (C) holes are generated and material is called P-type
	(D) holes are generated and material is called N-type
92.	To increase bandwidth, the distributed amplifier utilizes (A) common base configuration (B) Transmission line (C) tuned Circuit (D) Cascade amplifier
93.	A p-n junction diode's dynamic conductance is directly proportional to (A) the applied voltage (B) the temperature (D) the thermal voltage
94.	King closers are related to (A) doors and windows (C) Queen Post truss (B) King post truss (D) Brick Masonry
95.	Seasoning of timber is required to (A) Soften the timber (B) Harden the timber (C) Straighten the timber (D) Remove sap from the timber
96.	Batching in concrete refers to (A) Controlling the total quantity of each batch (B) Weighing accurately, the quantity of each material for a job before mixing (C) Controlling the quantity of each material into each batch
	(D) Adjusting the water to be added in each batch according to the moisture content of the materials being mixed in the batch
97.	 (A) accelerating the setting time (B) retarding the setting time (C) increasing the plasticity (D) reducing the grout shrinkage
98.	The maximum defection of a fixed beam carrying a central load W is equal to (other notations standard)
	(A) $\frac{WL^3}{48EI}$ (B) $\frac{WL^3}{96EI}$
	$\frac{WL^{3}}{192EI} \qquad (D) \frac{5}{384} \frac{WL^{3}}{EI}$

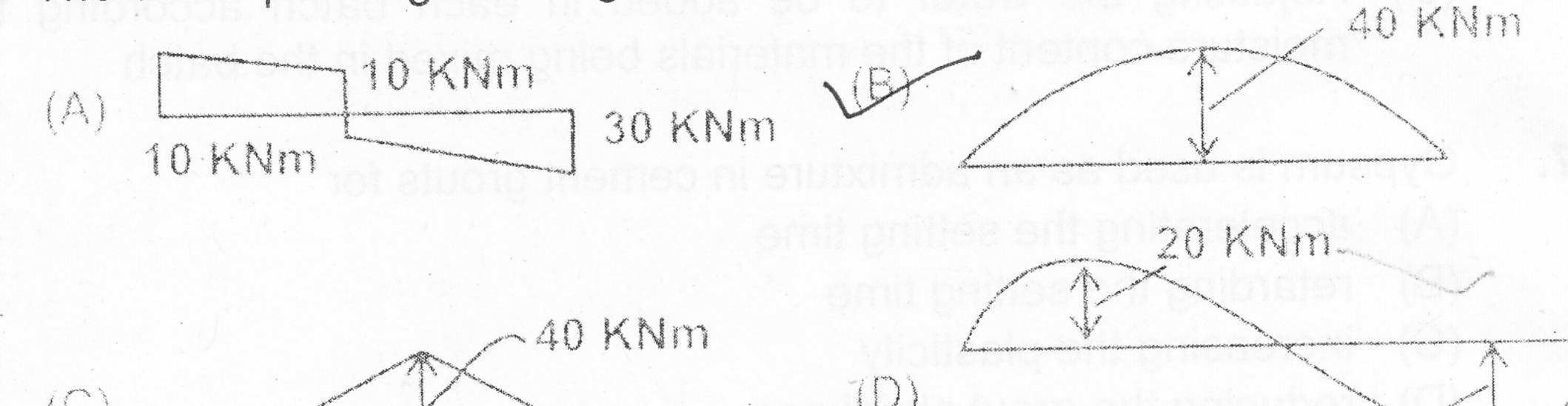
99. In a thin-wall T-section, the shear centre C is located at the point shown in



100. A simply supported beam is loaded as below



The corresponding Bending Moment Diagram is

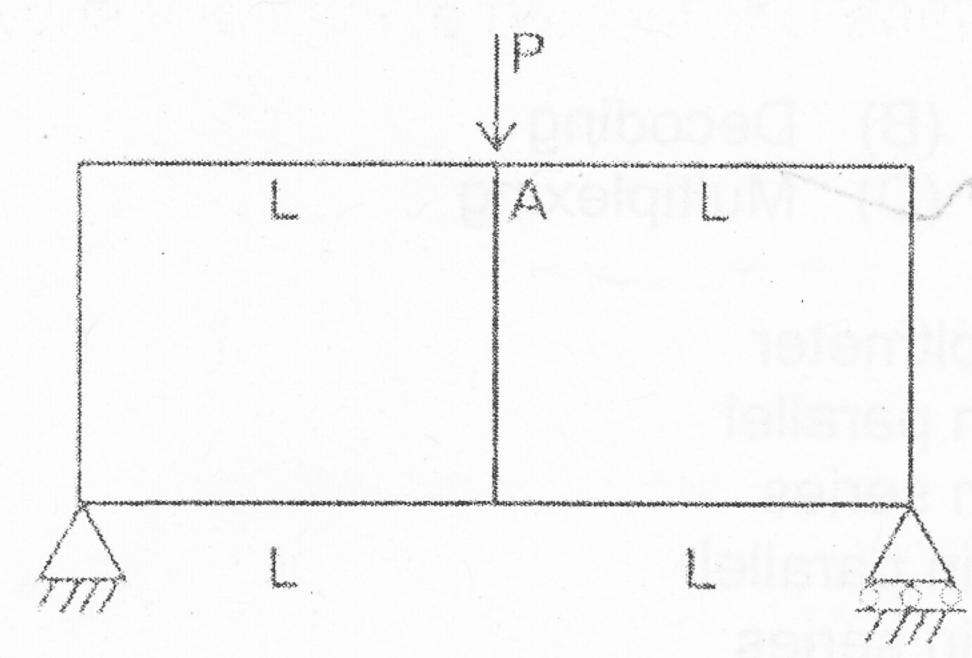


- 101. What is the radius of Mohr's circle in case of bi-axial state of stress?
 - (A) Half the sum of the two principal stresses

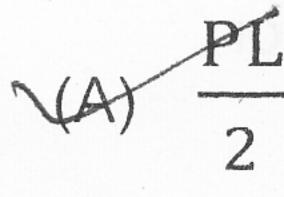
 (B) Half the difference of the two principal stresses
 - (C) Difference of the two principal stresses
 - (D) Sum of the two principal stresses

20 KNm

102. What is the moment at A for a frame shown below:



Each vertical member has very large Moment of Inertia



 $(B) \frac{PL}{4}$

 $(C) \frac{PL}{8}$

 $(D) \frac{PL}{16}$

103. A structure has two degree of indeterminacy. The number of plastic hinges that would be formed at complete collapse is

- (A) 0
- (B) 1
- (C) 2

YADT 3

104. For laminar flow between parallel plates separated by a distance 2h, head loss varies

(A) directly as h

(B) inversely as h

(C) directly as h²

(D) Inversely as h³

105. In Surveying, Offsets are

- (A) lateral measurements made with respect to main survey line
- (B) perpendiculars erected from chain lines
- (C) taken to avoid unnecessary walking between stations
- (D) measurements which are not made at right angles to the chain line

106. The true length of a line is known to be 200 m. When this is measured with a 20 m tape, the length is 200.8 m. The correct length of the 20 m tape is

(A) 19.92 m

(B) 19.98 m

(C) 20.04 m

(D) 20.08 m

107. Shear failure of soils takes place when

- (A) the angle of obliquity is maximum
- (B) maximum cohesion is reached in cohesive soils
- (C) preaches its maximum value in cohesionless soils
- (D) residual strength of the soil is exhausted

108.	What is the process of utilizing one	data link for transmission of a group of
	variables known as?	
	(A) Encoding	(B) Decoding
	(C) Demultiplexing	(D) Multiplexing
	In order to increase the range of a	voltmeter
109.	(A) a low resistance is connected	in parallel
	(D) a low resistance is connected	in series
	ici a binh resistance is connected	d in parallel
	a high resistance is connected	d in series
110.	The internal resistance of the millia	diffilletel illust be very letter
	(A) high accuracy	
	(B) high sensitivity (e) minimum effect on the curren	t in the circuit
	(D) maximum voltage drop acros	s the meter
111	In order to have fast, steady and	accurate responses, the meters should
	have	to efelomop is bennot ed bluow isni
	(A) Critical damping	
	(B) Under damping	
	(C) a very high damping coefficie	ent
	(D) No damping	
	de lessing the inetri	iment will become
112.	In case of overdamping, the instru	(B) dead
	(A) Oscillating	4DT slow and lethargic
	(C) fast and sensitive	The state of the s
113	In reference to Acid rain, what is	correct statement.
	(B) It occurs due to presence	of sulphuric acid or nitric acid in the
	atmacahara	
	Maximum acid is due to stro	ong Carbonic Acid
	(D) Acid rain affects ecosystem	
	the manior co	ntribution is due to
114	In Global Warming, the major co	(B) Agriculture
	(A) Carbon emission	(D) Industry
	(C) Deforestation	
115	Which of the following mechanis	ms is NOT for removing particulate matter
	from gas streams.	
	(A) Gravitational settling	(B) Centrifugal impaction (D) Durning the particulate
	(C) Electrostatic precipitation	(D) Burning the particulate
		T Biotic components of ecology.
116		(B) Producers
	(A) Consumers	· Climate
	(C) Decomposers	

	(P) (Q) (R) (S) (A)	ch Col. X (Result) and Col. Y (Ca Col. X Water pollution Air pollution Noise pollution Soil pollution P-2, Q-1, R-4, S-3 P-3, Q-1, R-2, S-4	1. 2. 3. 4. (B)	Col. Y Combustion of fossil fuel Decaying of organic matter Pesticides High decibel P-1, Q-2, R-4, S-3 P-1, Q-3, R-2, S-4
	(A)	of the Computer where data and Register Unit Memory Unit	(B)	ructions are held is Accumulator CPU
119.	(A) (B) (C)	a program that automate the t machine language	ransl am w	
120.	(A)	ch of the following is NOT a regis Accumulator Program Counter	(B)	n Computer ? Stack Pointer Buffer
121.		ch Network protocol is used to se FTP (B) SSH		POP 3 (P) SMTP
122.	(A) (B) (C)	use of a cache in Computer sysavailable memory space for the available memory space for the available speed of memory according range of CPU	prog	gram
123.	of o (A)	icroprocessor has 24 address line pcode, the size of its Memory Bu 22 bits 32 bits	uffer l	nd 32 data lines. If it uses 10 bits Register is 24 bits 14 bits
124.	(A) (B) (C)	microprocessor when a CPU is Stops execution of instructions Acknowledges interrupt and branch Acknowledges interrupt and con Acknowledges interrupt and was interrupting device	anch	es off subroutine les

133.	A particle moves along a circunature of its acceleration?	ular path with constant speed. What is the
	(A) It is zero	(B) It is Uniform
	(C) Its direction changes	(D) Its magnitude changes
134.	A body is at rest on the sure Statements is correct? (A) No force is acting on the body action (B). Only weight of the body action (C) Net downward force is equal (D). None of these is correct.	cts on it
135.	The Specific Heat of the gas in	an icothormal process is
	/ A \ snougs	
	(A) Zero	(B) Infinite
	(C) Negative	(D) Remains constant
	In a Simple Harmonic Oscillator (A) Kinetic Energy is minimum (B) Both Kinetic and Potential (C) Kinetic Energy is maximum (D) Both Kinetic and Potential	n, Potential Energy is maximum Energies are maximum n, Potential Energy is minimum
137.	Mirage is a phenomenon due to (A) Reflection of light (C) Total Internal reflection of	(B) Refraction of light light (D) Diffraction of light
138.	Which of the following cannot motion? (A) (A)	be speed-time (v-t) graph of a body in
	Compression services and a service of the services of the serv	
139.	Avogadro's number, N _A means (A) number of protons in nucle (B) number of atoms in one gra	
		ons and the neutrons in the nucleus of an

atom

number of protons or electrons in one gram of Sodium

140.	(A) (B) (C)	Same number Same atomic n Same number Different atomic	of neutrons nass of protons	e		
141.	pell	a reaction betwe	en Zinc and	lodine	Zinc lodide is	formed. What is
	(A) (B)	Zinc ions Zinc Atom		(B) (D)	lodide ions lodine	
142.	Whi	ich of the followir F ₂ (E	ng halogens is 3) Cl ₂	the be (C)	st oxidising age	nt?) ₂
143.	(A) (B) (C)	ogen is used to four is lighter than a makes the bulb does not supposis non-toxic	ir to give more i		use it	
144.	the	h floatation proc gractical applicat Adsorption Coagulation	ess for the co ion of	(B)	ation of Ores is Absorption Sedimentation	an illustration of
145.	(A)	process of increased Organic farming Eutrophication	asing fertility o	481	y earthworms is Vermicompostir Worm Casting	known as
146.	The (A) (C)	most abundant e Iron Nitrogen	element preser	YB)	epiants is : Carbon Manganese	
147.	(A)	nzyme brings ab Decrease in rea Increase in activ	ction time		Increase in reac Reduction in act	
148.	YAT	eys are not only Liver Large intestine	organs of excr	etion, to (B) (D)	their work is supported to the support of the suppo	olemented by
149.	(A)	longest cell in the Osteocytes Chromatophores	atois as to au	4B)	Neuron Lymph corpusció	25
	(A)	nin needed for bl E (B)	D	on is	K (D)) C