1.	What is the main drawback of a primary cell?	1	1. Legislative Council
	1. Chemical reaction is irreversible		2. Sales Tax
	2. The used electric equipments are costly		3. Antidefection
	3. Cell is not light		4. None of these
	4. None of these	10.	One rupee currency note bears the signature of
2.	The required AT quantity for air gap is more		1. Governor of RBI
	than that for ferrum part from a magnetic cir-		2. Fianance Secretary
	cuit because		3. Both (1) and (2)
	1. Air is a mixture of gases		4. None of these
-	2. Magnetic permeability for iron is less than that of	11.	The Victoria Memorial Park is situated in
	air and another a measure of the section of the sec		1. Kolkata 2. Delhi
	 Magneti permeability for iron is more than that of air 		3. Mumbai 4. Hyderabad
	4. None of these	12.	The instrument used to measure atmospheric
2	What will be the equivalent potential if a con-		pressure is the bound of the second of the s
	denser of 20µF charged to 500V is connected in	. 1	1. Barometer 2. Thermometer
	parallel to a condenser of 10µF charged to 200 V?	-	3. Lactometer 4. None of these
	1. 200 V 2. 250 V 3. 300 V 4. 400 V	13,	Creamy Layer hypothesis is
4.	When the primary coil of transformer is loaded		1. Economy based classification
	from an AC source, its core gets heated due to		2. Society based classification
	1. Permeability of core 2. Iron loss		3. Caste based classification
	3. Iron magnetism 4. Hysterisis loss		4. None of these
5.	What will be the value of a star network equiva-	14.	Who is the writer of the book 'Hind Swaraj'
	lent to three $12 \text{ k}\Omega$ resistance delta?		1. Dr. Rajendra Prasad
	1. Each 2kΩ 2. Each 4 KΩ		2. Mahatama Gandhi 3. B.R. Ambedkar
	3. Each 8 KΩ 4. Each 6 KΩ		4. Dayanidhi
6.	What will be the name of mascot of common-	15	Hirakud Dam has been built on the river
	wealth games to be held in India in 2010? 1. Shera 2. Kaptap	10.	1. Mahanadi 2. Ganges
	Application of the second seco		3. Tapti 4. Cauvery
-	1. I tolle of these	16.	Rotting process in jute happens by
	The opposition parties of Nepal have decided to hand over the office of Prime Minister to	-D-187	Microbiotic process Chemical process
	1. B.P. Koirala		3. Physical process 4. None of these
	2. Girija Prasad Koirala	17.	Which is the last month of Indian national
	3. Shankar Kumar		Calendar?
	4. None of these		1. Chaitra 2. Palgun
8.	Where is Greenwinch situated?		3. Asadha 4. Bhadra
	1. Britain 2. America	18,	Humayunama is a composition of
	3. Russia 4. India		1. Humayun (No. 1000)
9.	The 52nd Constitutional Amendment is related		2. Gulbadan Begum
	to the		3. Firdausi
	The state of the s		4. Abul Fazal

19. The first sitting of the Council of States was held in	35. The year 2006 has been declared as year of by the Railway Minister.
1. 1955 2. 1954 3. 1952 4. 1950	Passenger service with a smile
20. Operation Flood is related to	2. Passenger Amenities
1. Wool 2. Milk	
3. White meat 4. Eggs	3. Freight Service
21. Postcard was firstly introduced in	4. Senior Citizen
1. Hungary 2. Myanmar	36. If several alternators are connected in parallel,
3. Maharashtra 4. Russia	the active power coefficient of each is deter-
11 1440014	mined by
22. The Article 352 of the Constitution is related to	1. Power coefficient of load
1. Emergency powers of the President	2. Moment of force of original motion generator
2. Services to the citizens	3. Its regional excitement
3. Fundamental Rights	4. None of these
4. None of these	37. A 3-phase load is in equilibrium if all three phas-
23. Who was the founder of Sen Dynasty?	es have equal
1. Nagbhatta 2. Mannuk	1. Impedance
3. Samant Sen 4. Kokalla	2. Power factor
24. What is the currency of Bangladesh?	3. Impedance and power factor
1. Rupee 2. Taka 3. Dinar 4. Dollar	4. None of these
25. The Suez canal connects	38. A permanent magnetic moving coil ammeter is
1. Manchester and Liverpool	connected to 50 Hz AC circuit in which 5A
2. North Sea and Rotterdam	ampere current is flowing. What will be the
3. Mediterrean Sea and Red Sea	reading of ammeter?
4. Andhra Pradesh and Tamil Nadu	1. OA 2. 5A
26. Which is the highest dam?	3. 2.5A 4. None of these
1. Bhakhara Nangal 2. Hirakud	39. Moving iron instrument consists of
3. Sardar Sarovar 4. None of these	1. A uniform scale 2. A square scale
27. Which is called city of palaces?	3. Logarithmic scale 4. None of these
A COLUMN TO THE	40. Five similar capacitors in series have resultant
	capacity 4µF. When these are connected in par-
T. Mullion	allel and are charged to 400 V then total stored
28. What the script of Egypt is called?	energy will be
1. Hiroglific 2. Devnagari	1. 16 J 2. 8 J 3. 24 J 4. 9 J
3. Greek 4. Unani and a galactic and	41. Three capacitors of Capacity 3µF. 9µF and 18µF
29. Asoka was the follower of	are connected in series and then in parallel. The
1. Buddhism 2. Hinduism	ratio Cs/Cp will be
3. Sikhism 4. Christianity	1. 1 : 15 2. 1 : 3
30. Who was the first woman Governor of an Indian	3.1:9 4.1:2
State? All in First ared and and highest? Mr	42. In which position, DC. series coiled motor will
1. Sarojini Naidu 2. Padmaja Naidu	have super mobility?
3. Lakshmi N Mittal 4. Sucheta Kriplani	1. When load is increased
31. Who was the founder of the Brahmo Samaj?	2. When the region is opened
1. Raja Ram Mohan Roy 2. Vivekanand	3. When armature circuit is opened
3. Dayanand Saraswati 4. D.N. Tagore	4. When load is removed
32. To remove ink spots, what is used?	43. An inductor of 8Ω and a resistance of 6Ω are con-
1. Benzoic acid 2. Acetic acid	nected across a 200 V A.V supply. The consumed
3. Oxalic acid 4. Boric acid	power will be
33. The period of 10th five year plan is	1. 400 W 2. 2400 W
1. 2000-2005 2. 2001-2006	3. 2000 W 4. 1200 W
3. 2002-2007 4. 2003-2008	44. The relative permeability of a meterial is more
34. Labour Day is celebrated on	than 1, it is called
1. April 8 2. June 5	
3. May 1 4. May 8	
J. Mary O	3. Ferromagnetic 4. None of these

The specific resistance of a metalic conduction	tor 57. In a step up transformer
with an increase in temperature.	1. Es > Ep 2. Ep > Es
1. Increases 2. Decreases	3. Es = Es 4. None of these
3. Remains unchanged 4. None of these	58. I KWh = ?
A series RLC circuit in which $R = 20\Omega X_L = 60$	
and $X_C = 80 \Omega$ is connected to a sine curve vo	olt- 3. 9.81 × 10 ⁵ J 4. 36 × 10 ⁵ J
age source of 20 + jov. the courrent in the circ	uit 59. 4-bit data word is called
will be	1. Byte 2. Nibble
1. 0.707 + J 0.707 A 2. 0.5 - J 0.5 A	3. Data base 4. None of these
3. 0.5 + J 0.5 A 4. 0.0707 – J 0.707 A	60 An ideal DC generator is one whose voltage and
47. In a given AC RL circuit the potential differen	ice plator is
across resistance is 15V and that across t	the 1. Zero 2. Minimum
inductor is 20V. The supply voltage is	, 3. Positive 4. Negative
1. 35 V 2. 5 V 3. 25 V 4. √175 V	C1 For high frequency conseity offers
If an alternating voltage is denoted by V = 2	61. For high frequency capacity offers 1. More resistance 2. Less resistance
sin 314 t, what will be its r.m.s value?	
1. 100 V 2. 282.8 V 3. 121.4V 4. 141.4V	3. Zero resistance 4. None of these
49. A tubro alternator uses	62. The power factor of an AC circuit having resist-
1. Region coil non-polar space composition	ance R and inductance L connected in series to
2. Region coil polar space composition	an a.c source of angular frequency ω is
3. Rotatory A.C. armature coll	1. $\frac{R}{\omega L}$ 2. $\frac{\omega L}{R}$
4. None of these	
50. A power generating station has an avera	age 3. $\frac{R}{\sqrt{R^2 + \omega^2 L^2}}$ 4. Zero
demand of 15 MW. If the coefficient of mechan	$\sqrt{R^2 + \omega^2 L^2}$
cal capacity be 50%, the original mechanic	
capacity will be	1. Fleming's left hand rule
1. 20 MW 2. 10 MW 3. 25 MW 4. 30 MW	2. Fleming's right hand rule
51. The working of a dynamo is based on the pri	in- 3. Ohm's law
ciple of	4. Ampere's law
1. Heating effect of current	64. An electric heating element consumes 500W,
2. Magnetic effect of current	when connected to a 100 V line. If the line volt-
3. Chemcial effect of current	age becomes 150 V, the power consumed will be
4. Electromagnetic induction	1. 500 W 2. 750 W 3. 1000 W 4. 1125 W
52. The standard frequency of AC supply in India	65. An electric kettle taking 3 A at 200 V brings one
1. 50 Hertz 2. 60 Hertz	litre of water from 20°C to the boiling point in 10
	minutes. Its efficiency is
	1. 33.3% 2. 66,6% 3. 87.7% 4. 93.3%
53. Synchronous motor is	66. Joule's mechanical equivalent of heat is equals
1. Alternating generator	to
2. DC Motor	1. 4.2 cal/J 2. 2.4 J/cal
3. Single Phase Motor	3. 4.2 J/cal 4. 4.2 J
4. None of these	67. An equivalent circuit of an ideal diode is
54. A piece of wire of a resistance 4 ohm is be	nt 1 one registance
through 180° at its midpoint and the two halv	es 2. one switch
are twisted together. Then the resistance is	3. one charged condenser
1. 1 Ω 2. 2 Ω 3. 5 Ω 4. 8 Ω	A second and
How many times will the resistance of n iden	
cal conductors be increased if the parall	el 68. The conductivity of aluminium in comparison to copper is
resistance be changed to series one?	
1. √n 2. n 3. n ² 4. n ⁻²	1. 50 per cent 2. 55 per cent
A single phase series coiled motor can be ope	3. 60 per cent 5. 75 per cent
ated by	69. A transformer whose PF is 0.90 receives 2
1. AC only 2. DC only	ampere current. Its power will be
3. AC and DC both 4. None of these	1. 150 W 2. 180 W 3. 160 W 4. 190 W

The resistance of an ideal voltmeter is 1. zero 2. infinity 3. 100 Ω 4. 500 Ω 71. Three resistors connected in star get 12 A curwill be the motion of motor? rent from 3 phase supply. If these resistors in 1. 500 rpm 2. 750 rpm delta are connected across the same supply, the 3. 1500 rpm 4. 1000 rpm current will be

1. 12 A 2.4 A 3. 24 A 4.36 A 72. The inductance of a circuit is 2H. If the circuit current change at 10A/sec, the self induced EMF will be

1. 12 A

2. 4 A

3, 24 A

4. 36 A

73. To heat the filament of a vacuum pipe 0.4 A d.c is required. To heat the filament to the same tempera ture, the r.m.s. value of the required ac will be

1. 0.4 ×√2 A

2. $\frac{0.4}{\sqrt{2}}$ A

3. $\frac{0.8}{\sqrt{2}}$ A

4. 0.4 A

74. If the relative electric permittivity of a medium increases, the force between two charges kept separately will

1. increase

2. decrease

3. remain unchanged

4. None of these

75. In a three phase synchronous motor there are 12 poles and it works on 440 V, 50 Hz supply. What

76. IF $V = 10.8 \sin 50 t$ then frequency will be

1. 8.96 Hz 3. 7.96 Hz

2. 9.96 Hz 4. None of these

77. The back emf in a DC motor is maximum when

1. The motor has picked up max. speed

2. The motor has just started moving

The speed of motor is still on the increase

4. None of these

78. In an electric circuit inductance opposes

1. increase in current

2. decrease in current

change in current

4. None of these

In a commercial lead acid cell. number of plates is 16. The number of cathode pltes is 1.7 2.8 3.9

4. 10 80. If current in a buld is reduced by 2% the power will be reduced by

1.2%

2.4%

3.1%

4. 2.6%

ANSWERS

1.1 2.3 3.4 4.4 5.2 6.1 7.2 8.1 9.3 10.2 11.1 12.1 13.1 14.2 17.2 18.2 15.1 19.3 16.1 20.2 21.1 22.1 23.3 24.2 25.3 26.1 27.2 28.1 29.1 30.1 33.3 34.3 31.1 32.3 35.2 36.2 37.1 38.3 39.4 40.2 41.1 42.4 43.2 44.3 45.2 49.2 50.4 46.1 47.1 48.4 51.4 52.1 53.1 54.1 55.3 56.3 57.1 58.4 59.3 60.3 61.2 62.3 65.4 63.2 66.3 67.3 64.4 68.3 69.2 70.2 71.2 72.1 73.1 742 75.1 76.3 77.1 78.3 79.2 80.2