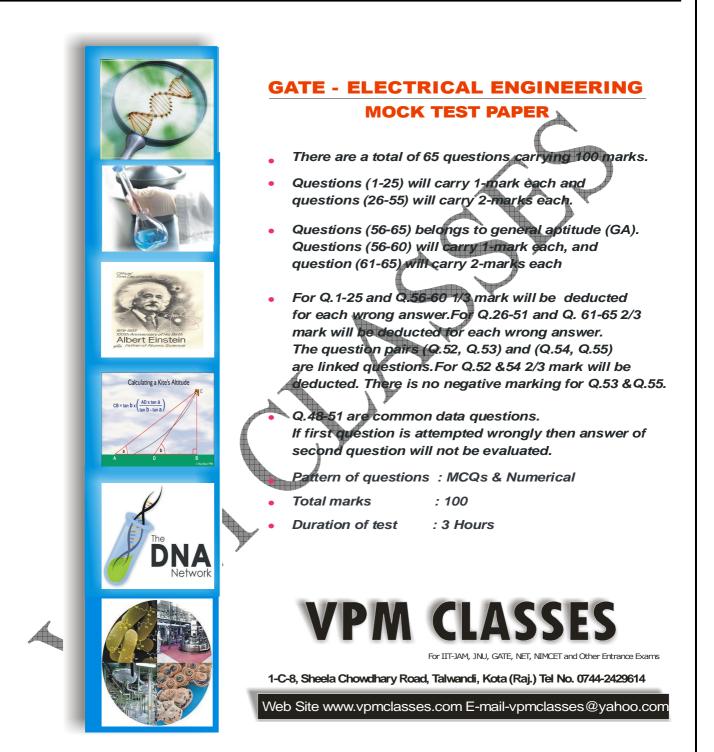


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Q 1-25 (1 MARK EACH)

1. A transformer operates most efficiently at 3/4th full load. Its iron (P_I) and copper loss (P_{CII})

are related as:

(A) $P_I / P_{Cu} = 16/9$

(B) $P_{I} / P_{Cu} = 4/3$

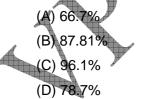
(C)
$$P_{I} / P_{Cu} = 3/4$$

(D) $P_{I} / P_{Cu} = 9/16$

2. For a 4 KVA, 200/400 V, 50 Hz, 1 – phase transformer, calculate the efficiency, when supplying a full – load secondary current at 0.8 lagging power factor. The following are the test results:

Open circuit with 200 V applied to the L.V. side: 0.8 A, 70 W. Short circuit with 20 V applied to the H.V. side: 10 A, 60 W.

- (A) 96.1%
- (B) 76.3%
- (C) 59.2%
- (D) 66.7%
- 3. The shaft output of a three-phase 60- Hz induction motor is 80 KW. The friction and windage losses are 920 W, the stator core loss is 4300 W and the stator copper loss is 2690 W. The rotor current and rotor resistance referred to stator are respectively 110 A and 0.15 If the slip is 3.8%, what is the percent efficiency?



4. A 2.2 kVA, 440 / 220 V, 50 Hz, step-down transformer has the following parameters referred to the primary side : $R_{e1} = 3$ ohms, $X_{e1} = 4$ ohms, $R_{c1} = 2.5$ K ohms and =

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2Kohms . The transformer is operating at full-load with a power-factor of 0.707 lagging. Determine the voltage regulation of the transformer.

- (A) 11.25%
- (B) 34.30%
- (C) 22.50%
- (D) None of these
- 5. A universal motor (ac-operated) has a 2-pole armature with 960 conductors. At a certain load the motor speed is 5000 rpm and the armature current is 4.6 Amps, the armature terminal voltage and input power are respectively 100 Volts and 300 Watts. Assuming an armature resistance of 3.5 ohm.Effective armature reactance is
 - (A) 16.48 🗆
 - (B) 46.18 🗆
 - (C) 18.64 🗆
 - (D) 14.86 🗆
- 6. A 3-phase induction motor has a starting torque of 100% and a maximum torque of 200% of full load torque. The Slip at maximum torque will be _____.
- 7. An unfinished moving iron voltmeter is used to measure the voltage in an a.c. circuit .If a stray d.c. magnetic field having a component along the axis of the meter coil appears, the meter reading would be

(A) unaffected

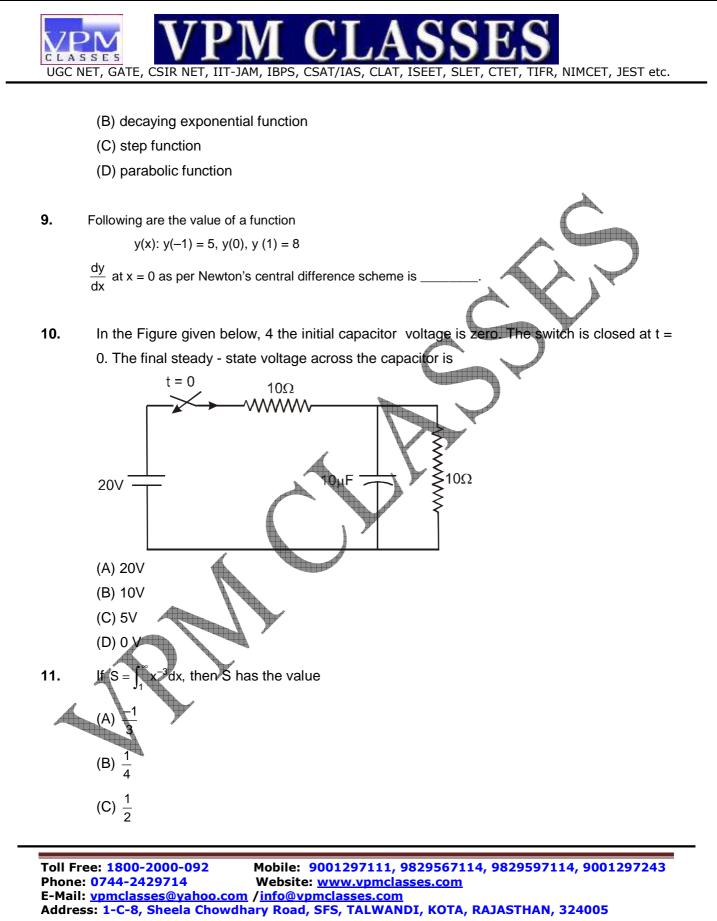
(B) decreased(C) increased

D) either decreased or increased depending on the direction of the d.c. field

8. The impulse response of an R - L circuit is a

(A) rising exponential function

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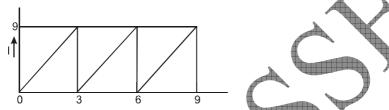




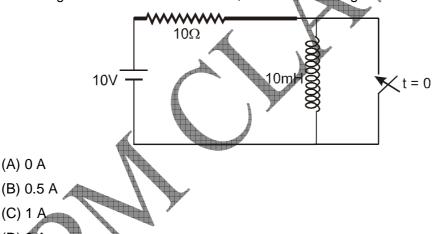
(D) 1

(C) 1 A (D)/2A

- 12. The energy stored in the magnetic field at a solenoid 30 cm long and 3 cm diameter wound with 1000 turns of wire carrying a current at 10 A, is _____ Joules.
- 13. The current wave from in a pure resistor at 10 is shown in the given figure. Power dissipated in the resistor is _____ W.

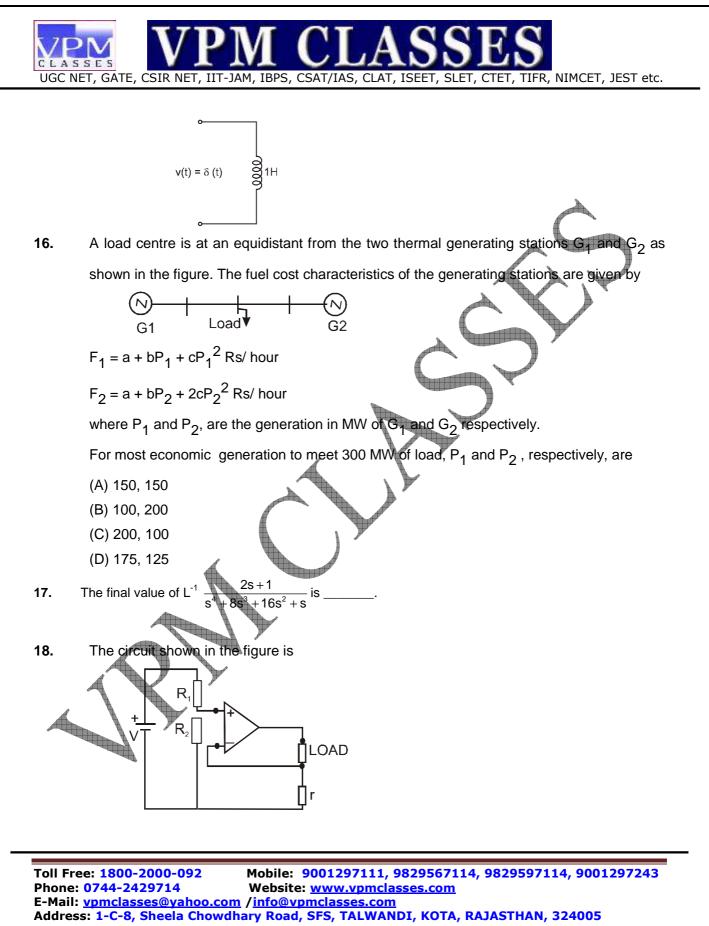


14. The circuit shown in the figure is in steady state, when the switch is closed at t = 0. Assuming that the inductance is ideal, the current through the inductor at $t = 0^+$ equals



When a unit impulse voltage is applied to an inductor of 1 H, the energy supplied by the source is 15. J.

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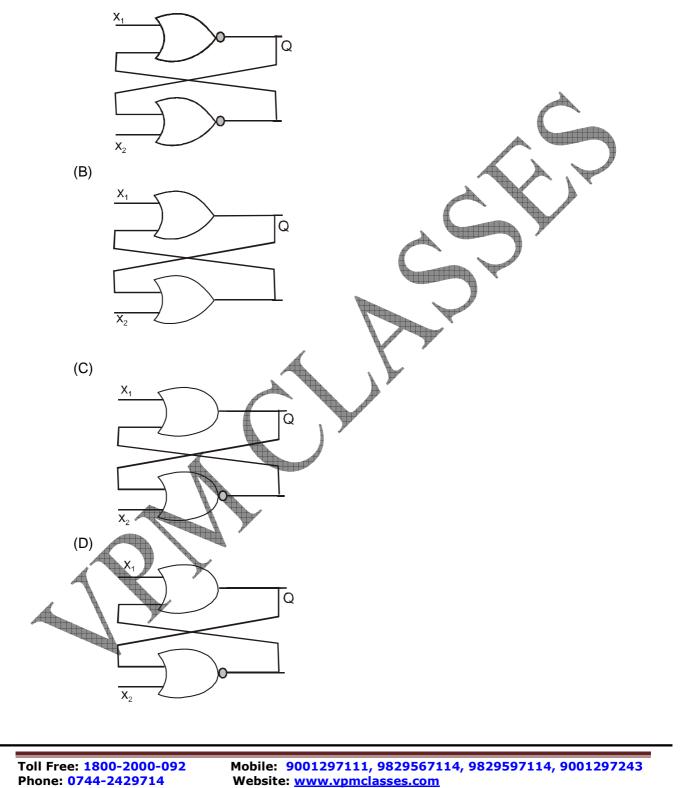




- (A) a voltage source with voltage $\frac{rV}{R_1//R_2}$
- (B) a voltage source with voltage $\frac{r/R_2}{R_1}V$
- (C) a current source with current $\frac{r/R_2}{R_1+R_2} \frac{V}{r}$
- (D) a current source with current $\frac{R_2}{R_1 + R_2} \cdot \frac{V}{r}$
- 19. The resistance of a strip of copper of rectangular cross section is 2□. A metal of resistivity twice that of copper is coated on its upper surface to a thickness equal to that of copper strip. The resistance of composite strip will be
 - (A) 6 🗆
 - (B) 4/3 🗆
 - (C) 3/2
 - (D) 3/4 🗆
- **20.** Select the circuit which will produce the given output Q for the input signals X1 and X2 given in the figure

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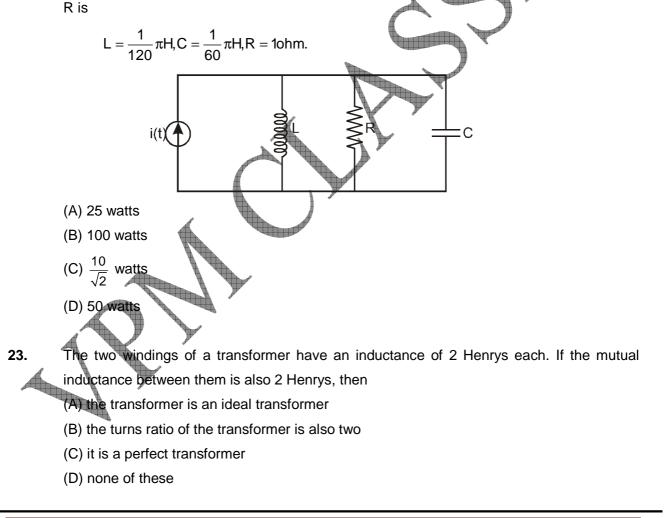


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- **21.** The current through an electrical conductor in 1 ampere when the temperature of the conductor is 0° C and 0.7 ampere when the temperature is 100°C.The current when the temperature of the conductor is 1200° C must be
 - (A) 0.08 A
 - (B) 0.16 A
 - (C) 0.32 A
 - (D) 0.64 A
- **22.** The circuit shown has $i(t) = 10 \sin (120 \square t)$. The power (time average power) dissipated in R is

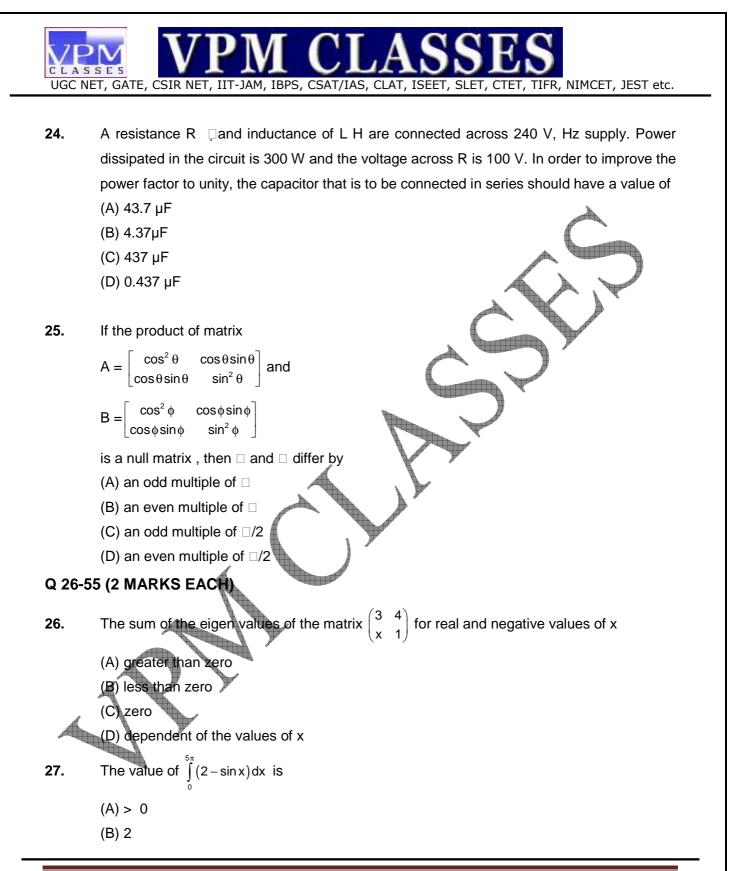


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(C) 0 (D) undefined Given $f(x, y) = x^2 + y^2$. Then $\Box^2 f$ is 28. (A) 4 (B) 2 (C) 0 (D) $4(x+y)^2$ Find the node voltage V_A . 29. R1 49Ω R3 80 Ω VA ± vs2 - 6V R2 24Ω VS1 12V VВ (A). 6 V (B).12 V (C). 4.28 V (D). 3 V 30. The value of y as the for an initial value of y (1) = 0, for the differential equation 8yt – t – 0 is (C) $\frac{1}{4}$

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- (D) $\frac{1}{8}$
- **31.** Taylor series expansion of the function,
 - $F(x) = \frac{x}{1+x} \text{ around } x = 0 \text{ is}$ (A) $x + x^2 + x^3 + x^4 \dots$ (B) $1 = x + x^2 + x^3 + x^4 \dots$ (C) $2x + 4x^2 + 8x^3 + 16x^4 \dots$ (D) $x - x^2 + x^3 - x^4 \dots$
- **32.** Three insulating materials with same maximum working stress and permittivities 2.5, 3.0, 4.0, are used in a single core cable. The location of the materials with respect to the core of the cable will be
- 33. The incremental generating costs of two generating units are given by

IC₁ = 0.1 X + 20 Rs /MWhr

 $IC_2 = 0.15 \text{ Y} + 18 \text{ Rs/ MWhr}.$

1.5 2.0

(D) none of these

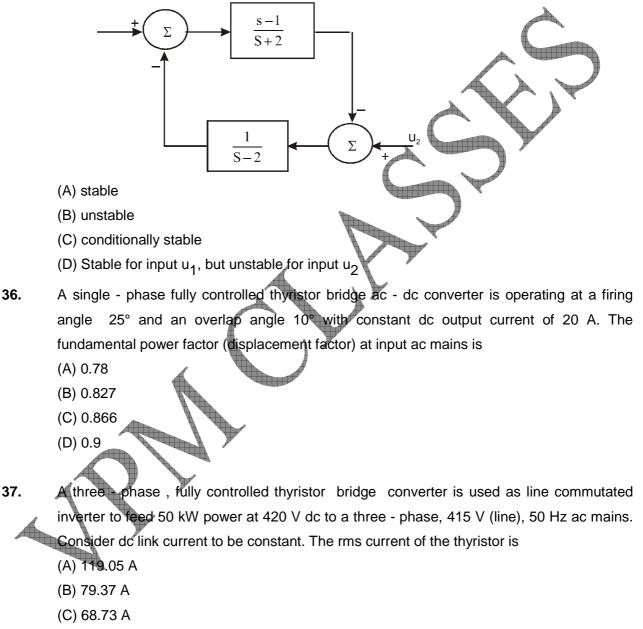
Where X and Y are power (in MW) generated by the two units. For a total demand of 300 MW. The values (in MW) of X and Y will be respectively ______.

34. Solving $x^2 - 2 = 0$ by Newton Raphson technique, when initial guess $x_0 = 1.0$, then subsequent estimate of x (i.e. x_1) will be (A) 1.414

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35. The system shown in the figure is



(D) 39.68 A

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- 38. In a transformer zero voltage regulation at full load is
 - (A) not possible
 - (B) Possible at unity power factor load

VinO

46%

(B) 55%(C) 63 %(D) 92%

- (C) Possible at leading power factor load
- (D) Possible at lagging without any controller, is
- 39. The input signal V_{in} shown in the figure is a 1kHz square wave voltage that alternates between + 7V and 7V with a 50% duty cycle. Both transistors have the same current gain, which is large .The circuit delivers power to the load resistor R_L. What is the efficiency of this circuit for the given input ? Choose the closest answer.

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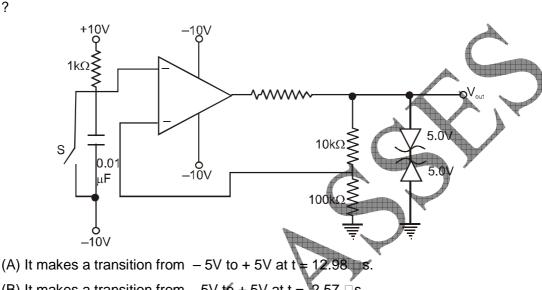
– 10V

Page 14

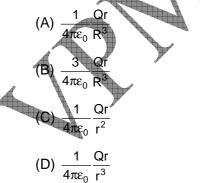
ξR_L = 10Ω



40. The switch S is the circuit of the figure is initially closed . It is opened at time T = 0. You may neglect the Zener diode forward voltage drops. What is the behaviour of V_{out} for t > 0



- (B) It makes a transition from -5V to +5V at t = 2.57 \Box s
- (C) It makes a transition from +5V to -5V at t = 12.98 \Box s
- (D) It makes a transition from + 5 V to -5V at t = 2.57 \Box s
- 41. A solid sphere made of insulating material has a radius R and has a total charge Q distributed uniformly in its volume. What is the magnitude of the electric field intensity ,E, at a distance r (0 < r < R) inside the sphere ?



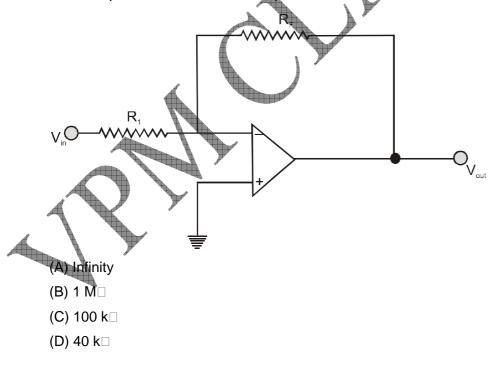
?

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- **42.** Two wattmeters, which are connected to measure the total power on a three phase system supplying a balanced load, read 10.5 kW and –2.5 kW, respectively, The power and the power factor, respectively, are
 - (A) 13.0 kW, 0.334
 - (B) 13.0 kW, 0.684
 - (C) 8.0kW, 0.52
 - (D) 8.0kW, 0.334
- **43.** If a dc voltmeter is made from an ammeter having a full scale deflection of 100 micro amperes, then its sensitivity (in k ohm. (V) will be _____.
- 44. Consider the inverting amplifier, using an ideal operational amplifier shown in the figure. The designer wishes to realize the input resistance seen by the small - signal source to be as large as possible, while keeping the voltage gain between - 10 and - 25. The upper limit on R_F is 1 M□. The value of R₁ should be



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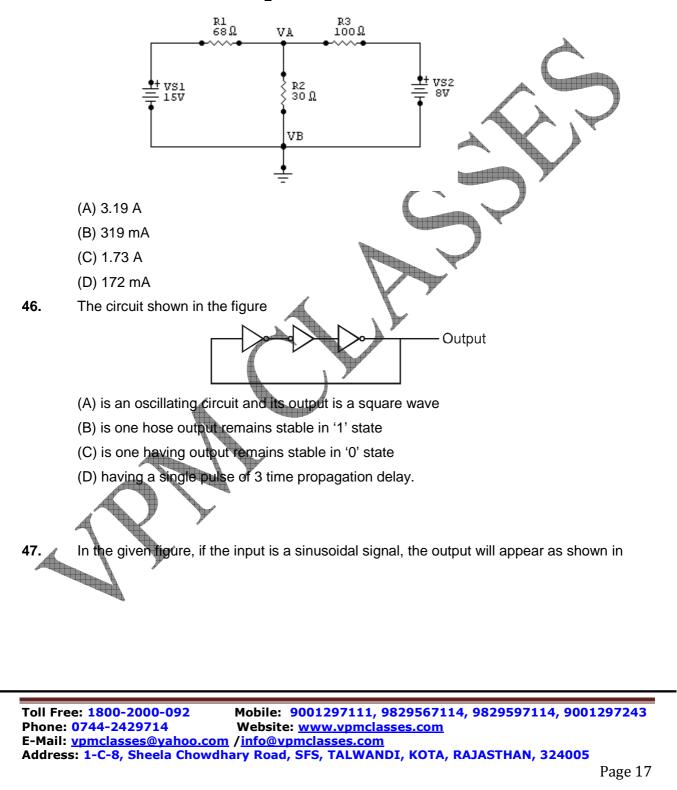
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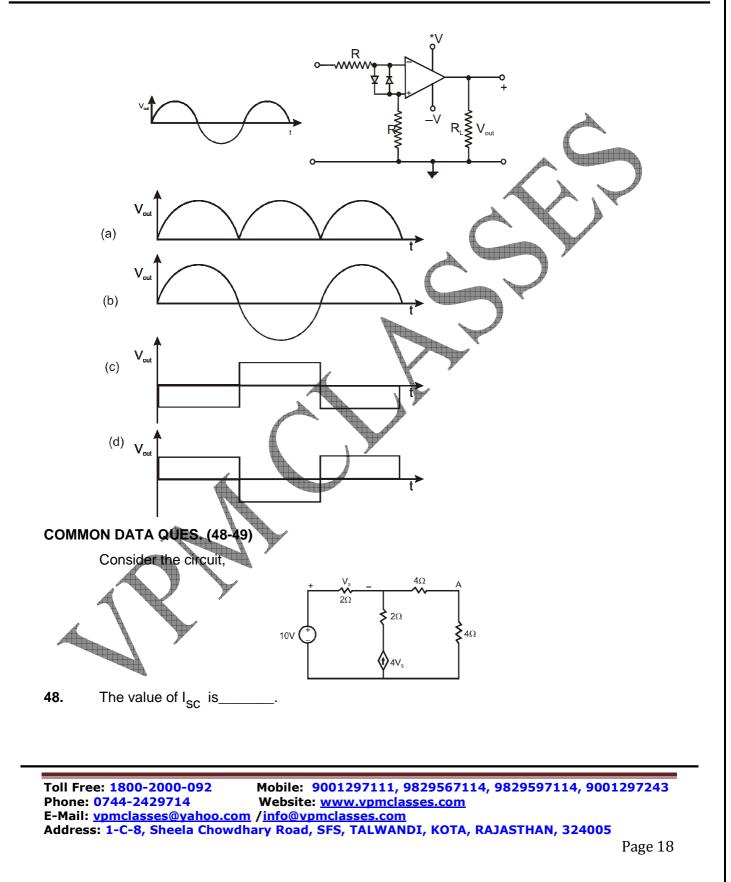
45. What is the current through R₂?





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49. Value of R_{Th}' by applying 1A source is -

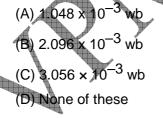
- (A) $\frac{38}{9}$ W
- (B) $\frac{58}{9}$ W
- (C) $\frac{48}{9}$ W
- (D) $\frac{28}{9}$ W

Common Data Ques.(50 - 51)

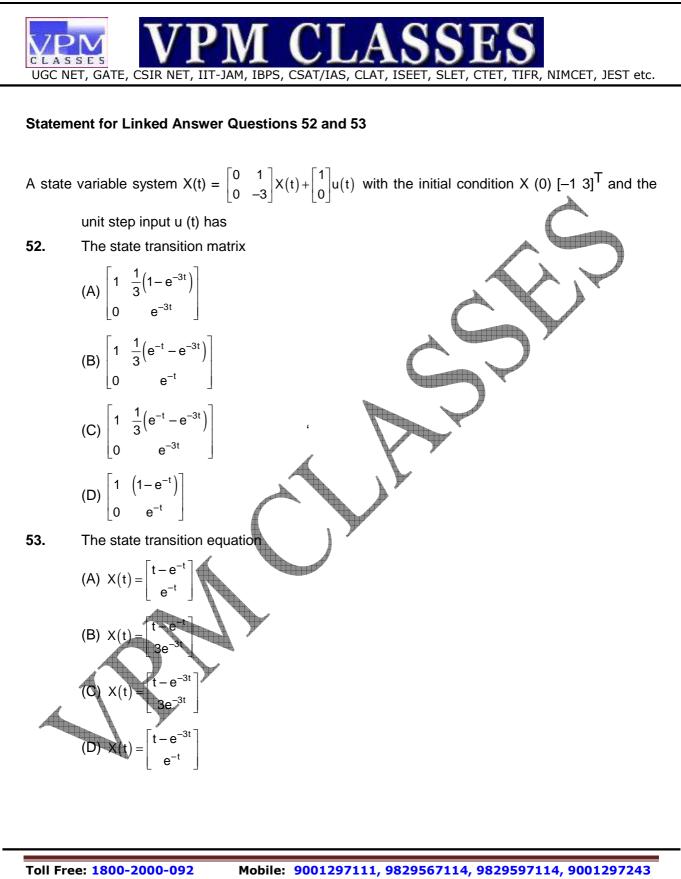
A universal motor (a.c. operated) has a 2-pole armature with 960 conductors. At a certain load the motor speed is 5000 r.p.m. and the armature current is 4.6A. The armature terminal voltage and input are respectively 100 V and 300 W. Compute the following, assuming an armature resistance of 3.5

- 50. Effective armature reactance
 - (A) 3.58 🗆
 - (B) 16.48 🗆
 - (C) 14.93 🗆
 - (D) 12.64 🗆

51. Max. value of useful flux per pole -



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The induced emf (line - to - line) is close to

A 1000 kVA, 6.6 kV, 3 - phase star connected cylindrical pole synchronous generator has a synchronous reactance of $20\Box$. Neglect the armature resistance and consider operation at full load and unity power factor.

54.

- (A) 5.5 kV
- (B) 7.2 kV
- (C) 9.6 kV
- (D) 12.5 kV
- 55. The power (or torque) angle is close to
 - (A) 13.9°
 - (B) 18.3°
 - (C) 24.6°
 - (D) 33.0°

GENERAL APTITUDE

Q 56-60 (1 MARK EACH)

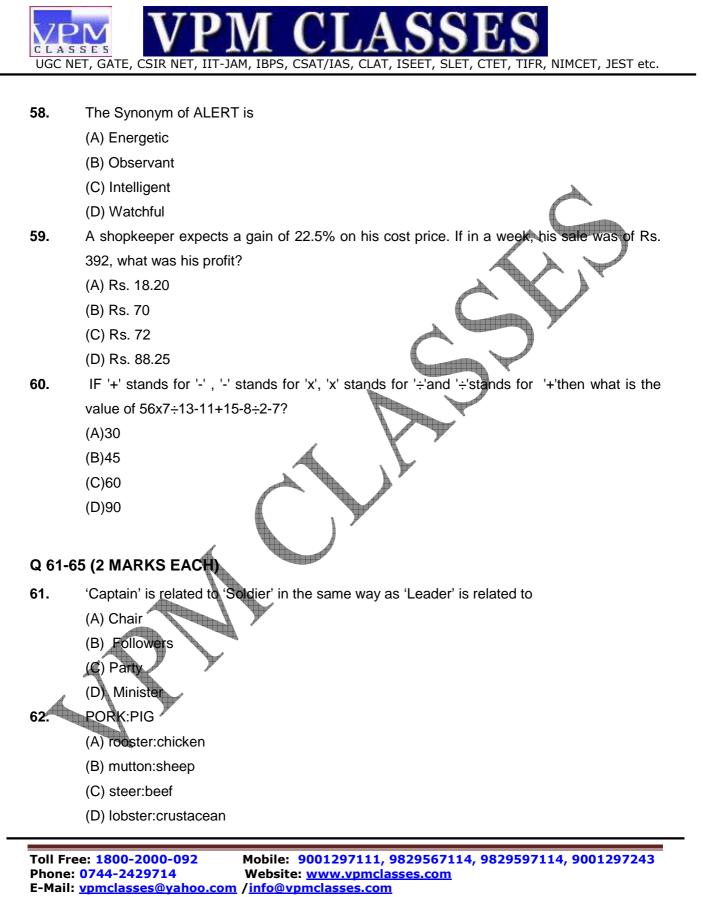
- 56. REASON : SFBTPO : THINK : ?
 - (A) SGHMJ
 - (B) UIJOL (C) UHNKI
 - (D) UJKPM
- 57. / The Antonym of MORTAL is
 - (A) Divine
 - (B) Immortal
 - (C) Spiritual
 - (D) Eternal

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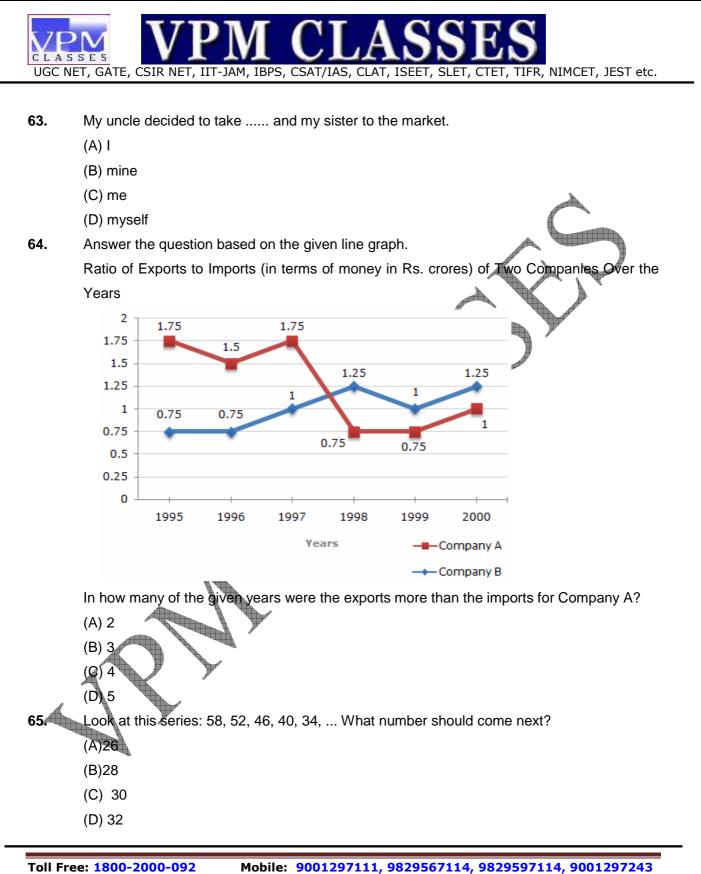
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Answer Key

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Answer	D	Α	В	С	Α	0.2679	D	В	1.5	В	С	0.15	270	С	0.5	C	1	D	В	В
Question	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Answer	В	А	С	А	С	А	А	А	С	D	D	4.0,3.0 2.5	128	С	D	А	D	С	D	D
Question	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Answer	Α	D	10	С	D	Α	D	9/2V	Α	В	Α	А	Č	В	С	В	В	D	С	В
Question	61	62	63	64	65															
Answer	В	В	С	В	В															

Hints and Solution

1.(D) If P_{Cu} is the Cu loss at full load, its value at 75% of full load is

 $P_{CU} \times (0.75)^2 = 9/16 P_{CU}$

At maximum efficiency, it equals the iron loss P_{I} which remains constant through out.

Hence max. efficiency at

$$P_{I} = 9/16 P_{Cu}$$

Or $P_{I} / P_{Cu} = 9/16$

2.(A) The transformer is supplying full-load secondary current at 0.8 lagging power factor

Full load secondary current =
$$\frac{4KVA}{400V} = \frac{4000VA}{400V} = 10A$$

From the open circuit test, core losses = 70W

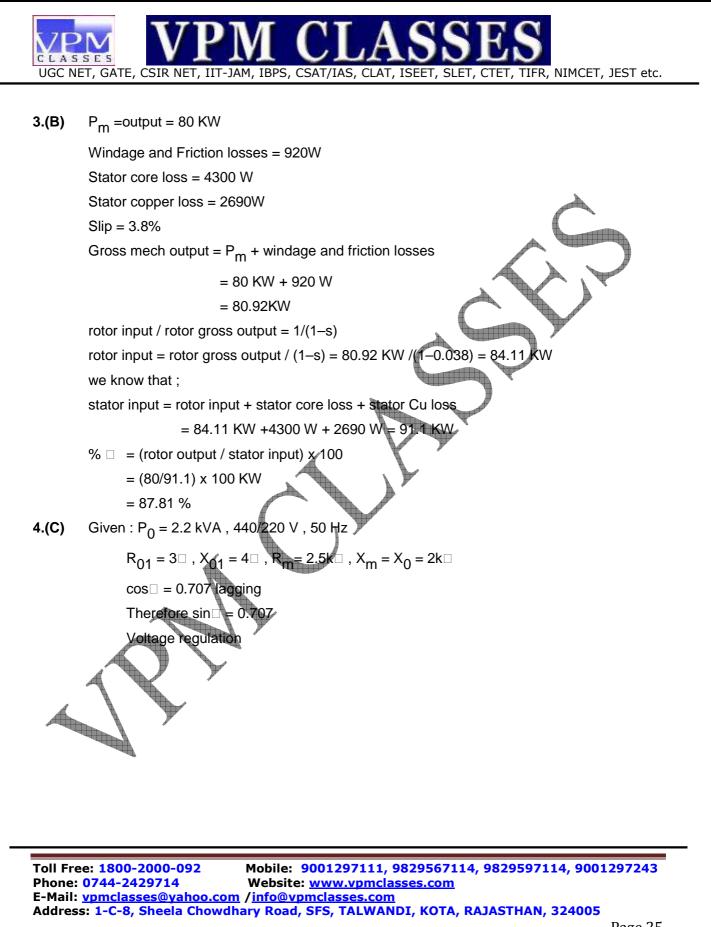
From the S.C. test, full load copper losses = 60W

Efficiency

$$\eta = \left(\frac{V_2 I_2 \cos \theta}{V_2 I_2 \cos \theta + \text{core losses} + \text{full loadcopper losses}}\right) \times 100 = \left(\frac{4000 \times 0.8}{4000 \times 0.8 + 70 + 60}\right) \times 100$$

$$=\left(\frac{3200}{3300}\right) \times 100 = 96.1\%$$

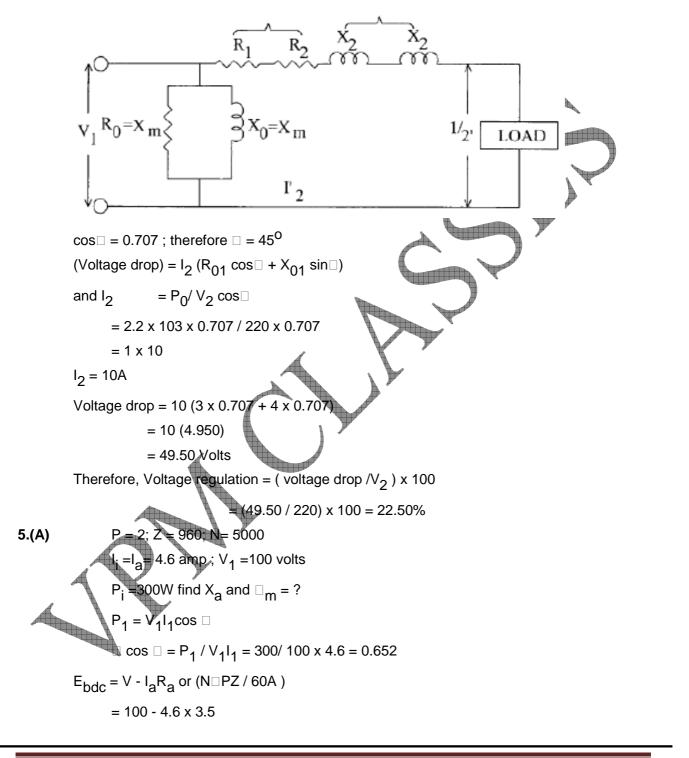
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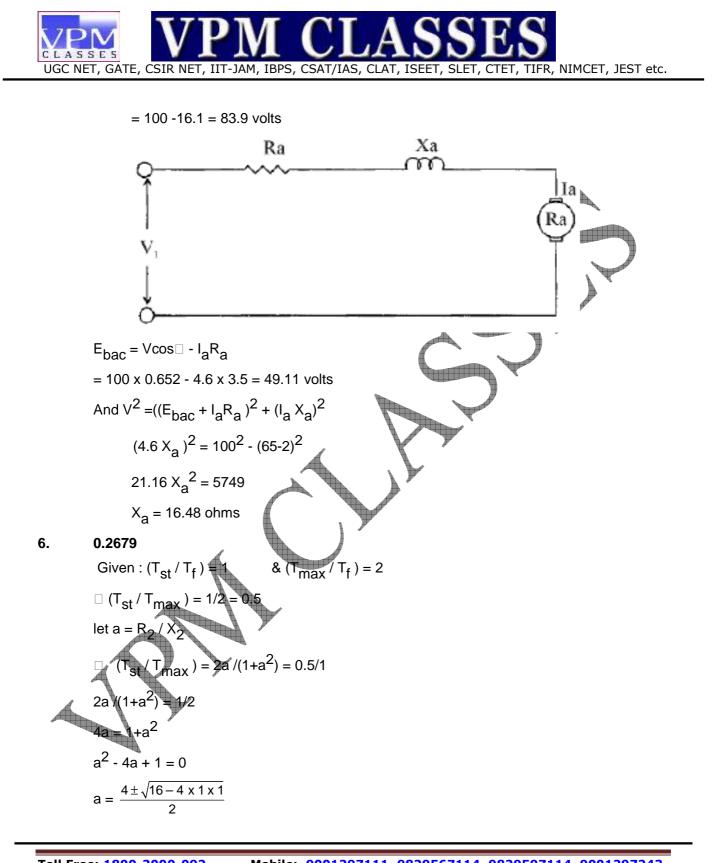


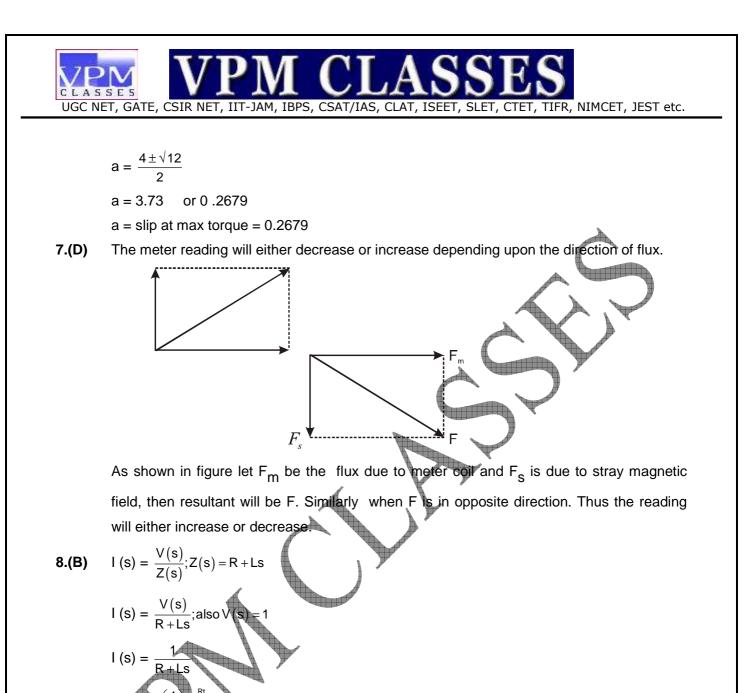
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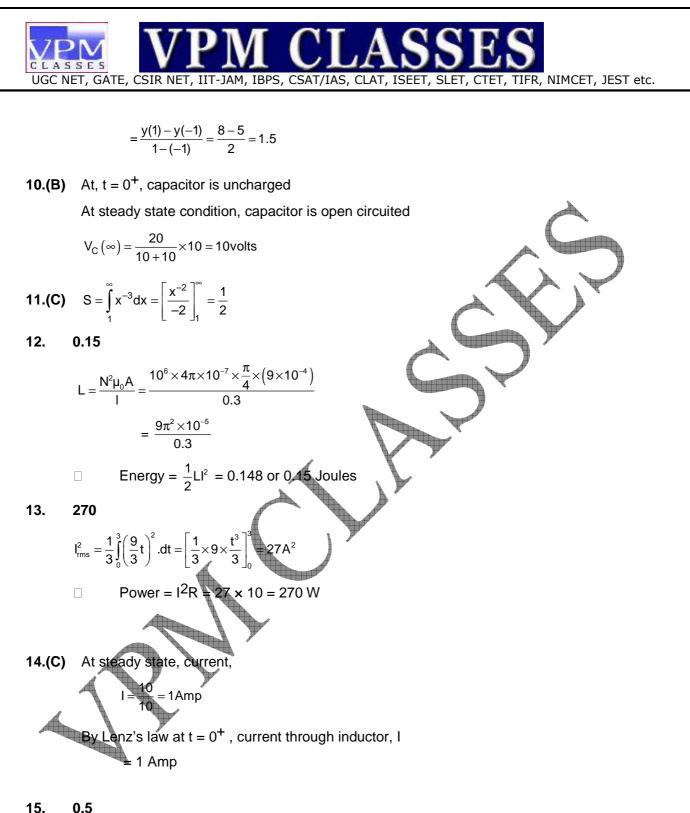


a decaying exponential function

9.

dx /

 $V_{\text{atx=0}} = \mathbf{X}_2 - \mathbf{X}_1$



15. 0.5

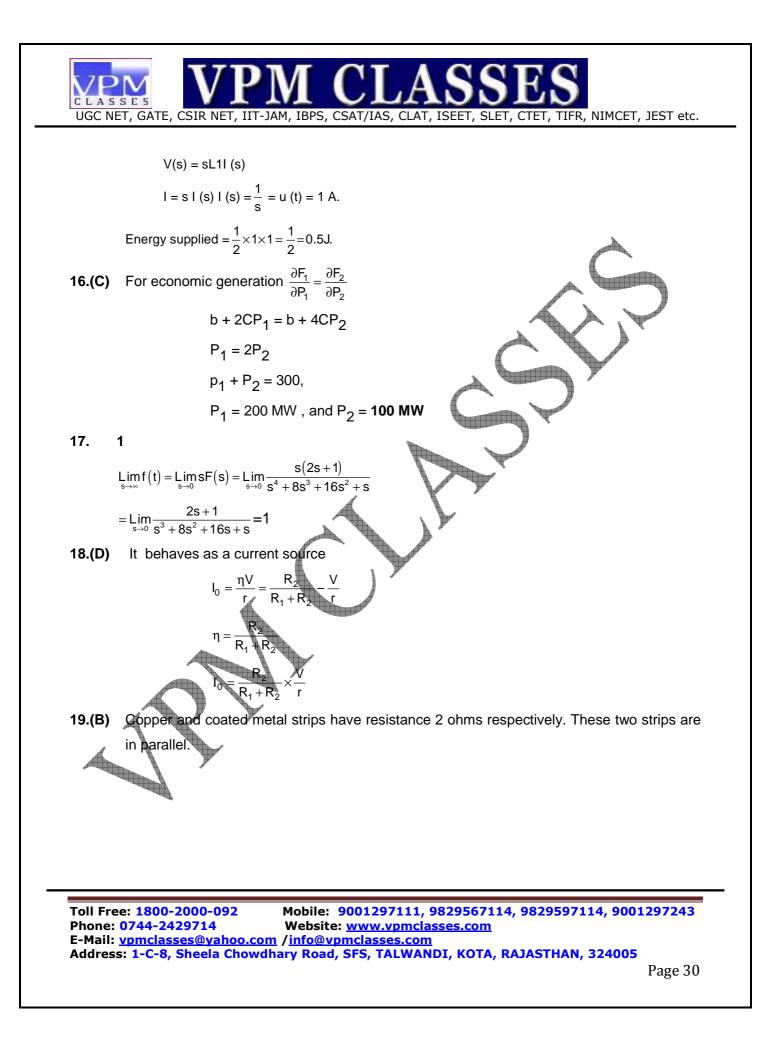
Current that flows is given by,

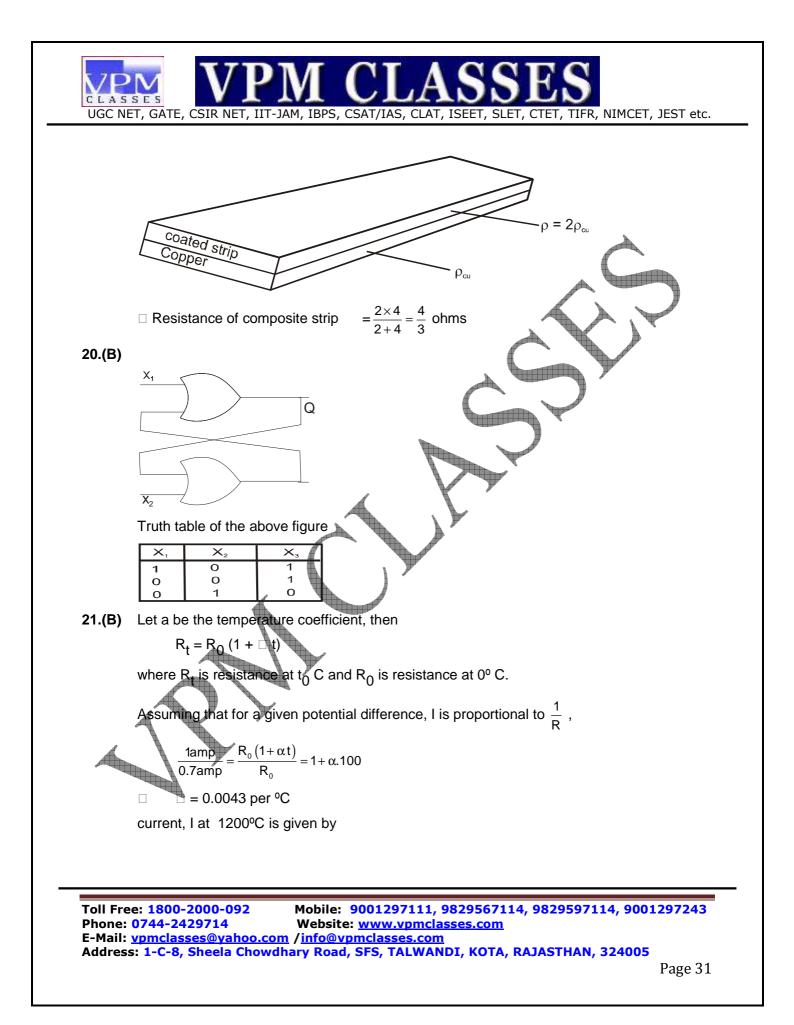
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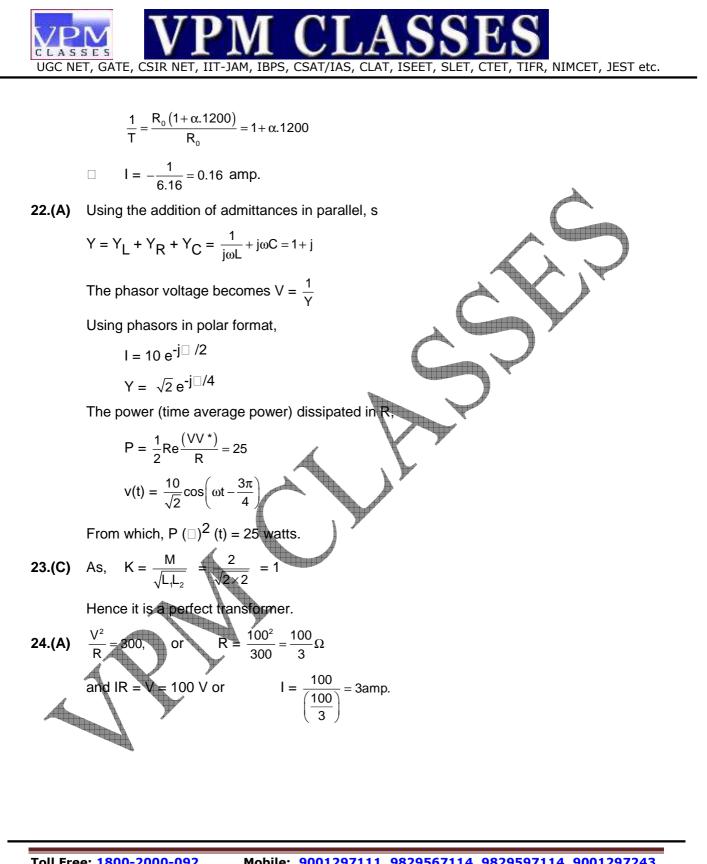
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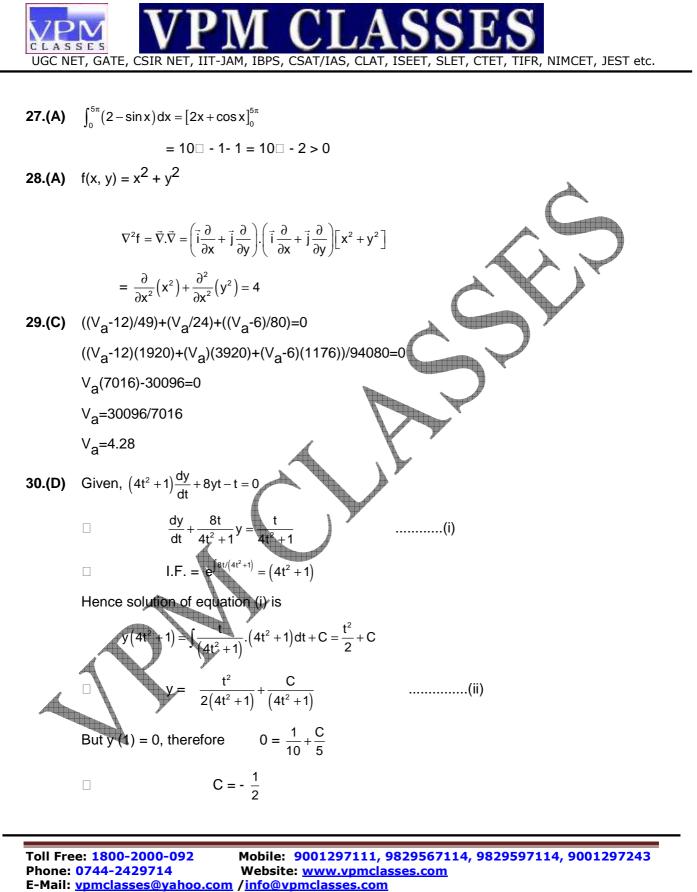
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From equation (ii), we have
$$y = \frac{t^2}{2(4t^2 + 1)} - \frac{1}{2(4t^2 + 1)}$$

$$y\big|_{t\to\infty} = \frac{Lt}{t\to\infty} \frac{1}{2(4+1/t^2)} - \frac{1}{2(4t^2+1)} = \frac{1}{2(4+0)} - 0 = \frac{1}{8}$$

31.(D)
$$f(x) = \frac{x}{1+x}$$

 $f(x) = f(0)$
 $= f'(0)(x-0) + \frac{f''(0)}{2}(x-a)^2 + \frac{f'''(0)}{3}x^3 + ...$
 $= 0 + x + (-x^2) + x^3 + ...$

$$= x - x^{2} + x^{3} + \dots$$

4.0 3.0, 2.5 32.

When all the three materials are subjected to the same maximum stress,

A

$$g_{max} = \frac{\lambda}{2\pi\epsilon_{1}r} = \frac{\lambda}{2\pi\epsilon_{2}r_{2}} = \frac{\lambda}{2\pi\epsilon_{3}r_{2}}$$
or
or
or
int = 2 r_{1} = 3 r_{2}
Since r < r_{1} < r_{2},
Therefore
$$a_{1} > a_{2} > a_{3}$$

Thus, the dielectric material with highest permittivity should be placed near the conductor and other layer in the descending order.

33. 128

or

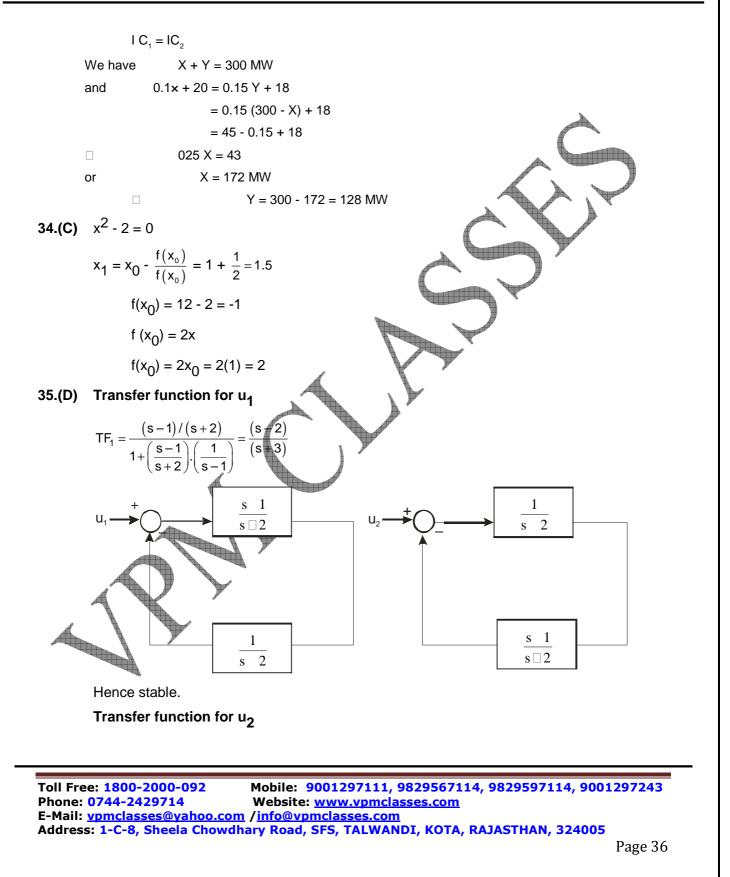
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$$\mathsf{TF}_{2} = \frac{\left(\frac{1}{s-1}\right)}{1 + \left(\frac{1}{s-1}\right)\left(\frac{s-1}{s+2}\right)} = \frac{1}{(s+3)(s-1)}$$

hence unstable , as it has pole at right side of s - plane.

36.(A)
$$I_{0} = \frac{V_{n}}{\omega L_{s}} \left[\cos \alpha - \cos(\alpha + \mu) \right]$$

$$20 = \frac{230 \times \sqrt{2}}{2 \times \pi \times 100 L_{s}} \left[\cos 25^{\circ} - \cos(25 + 10) \right]$$

$$L_{g} = .0045 \text{ Henery}$$

$$V_{0} = \frac{2 \times \sqrt{2} \times 230}{\pi}$$

$$Cos 25^{\circ} - \frac{2 \times \pi \times 50 \times 0.0045}{\pi} \times 20 = 178.65$$
Displacement factor = $\frac{V_{0} \cdot b}{V_{s} \cdot s}$

$$Displacement factor = \frac{V_{0} \cdot b}{V_{s} \cdot s}$$

$$I_{d} = 119.06$$

$$I_{d} = 119.05$$

$$I_{d} = 127.5 = 39.68$$
38.(C) Zero voltage regulation at full load is possible at leading power factor load
$$I = \sqrt{V_{R}} \cos \left[-V_{R} \sin \right]$$

$$I = 45^{\circ}$$
Hence voltage regulation is zero.
39.(D) Efficiency of the given circuit is 92% because it is a class c amplifier and usually its efficiency is high all the four options containing 46%, 55%, 63%, 92%. and among the four options the 92% is highest. The answer would be 92%.

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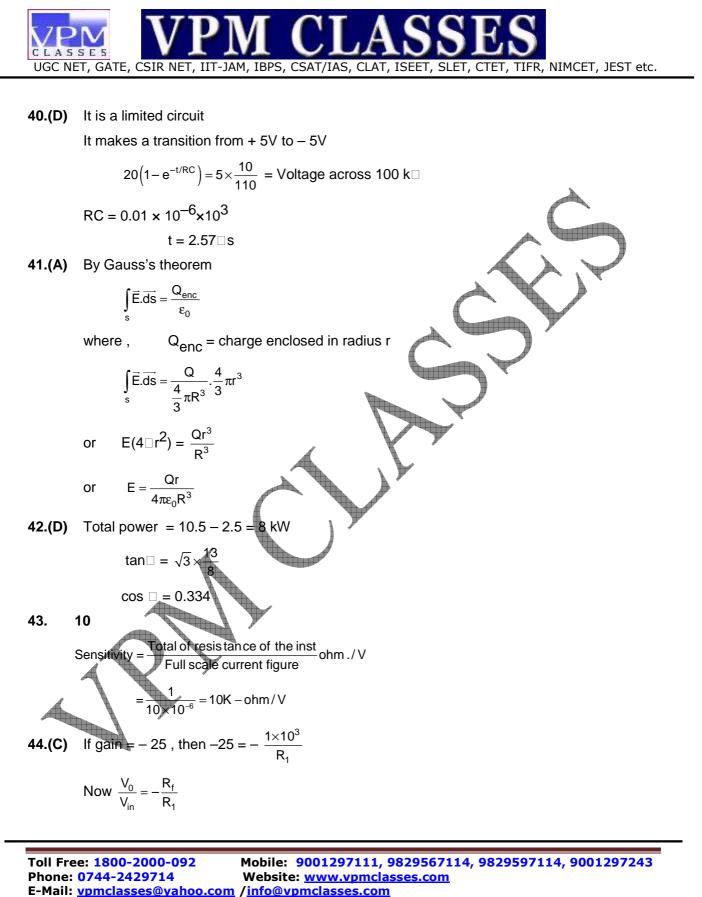
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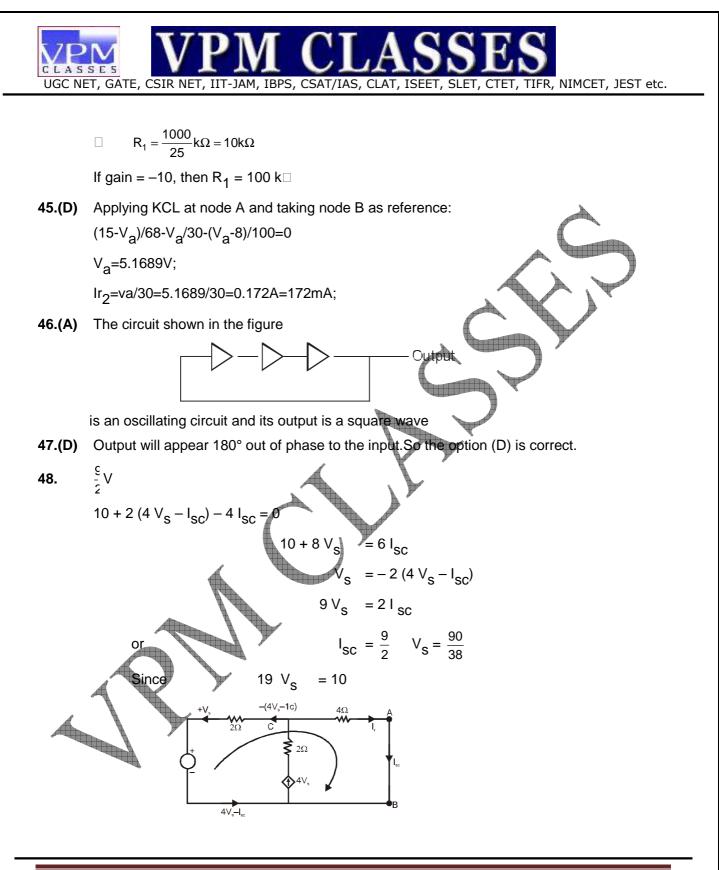
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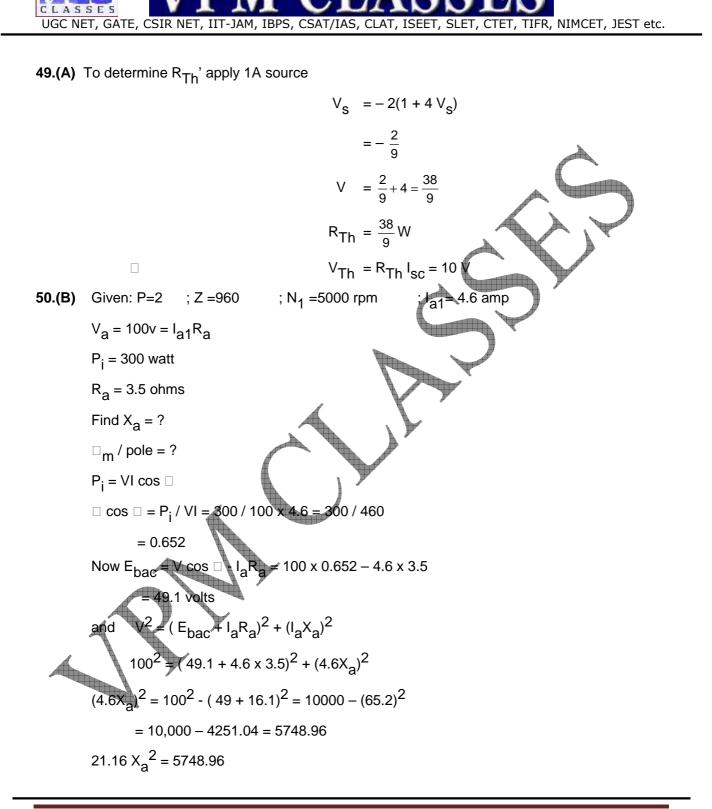
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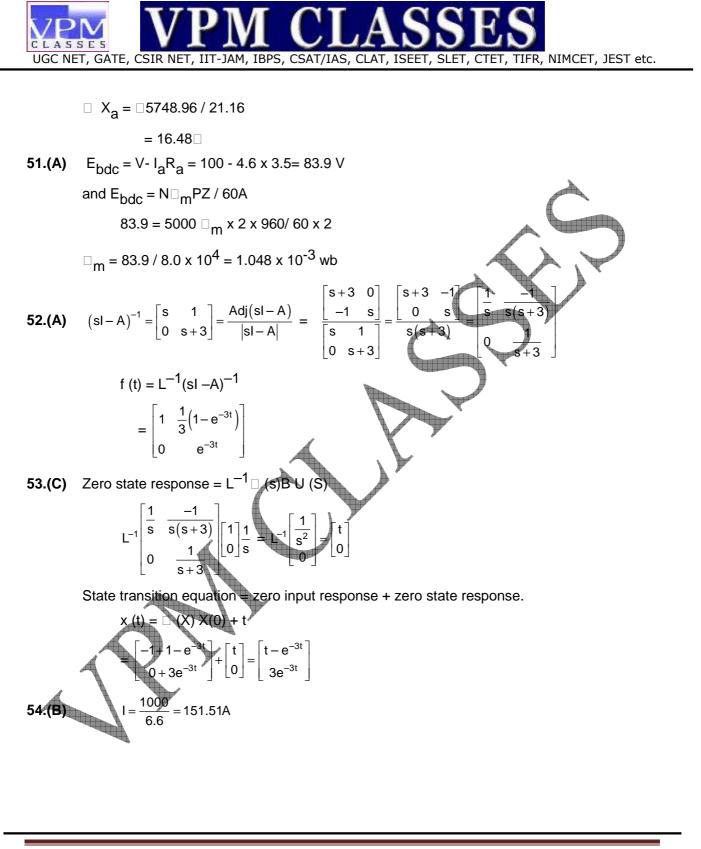
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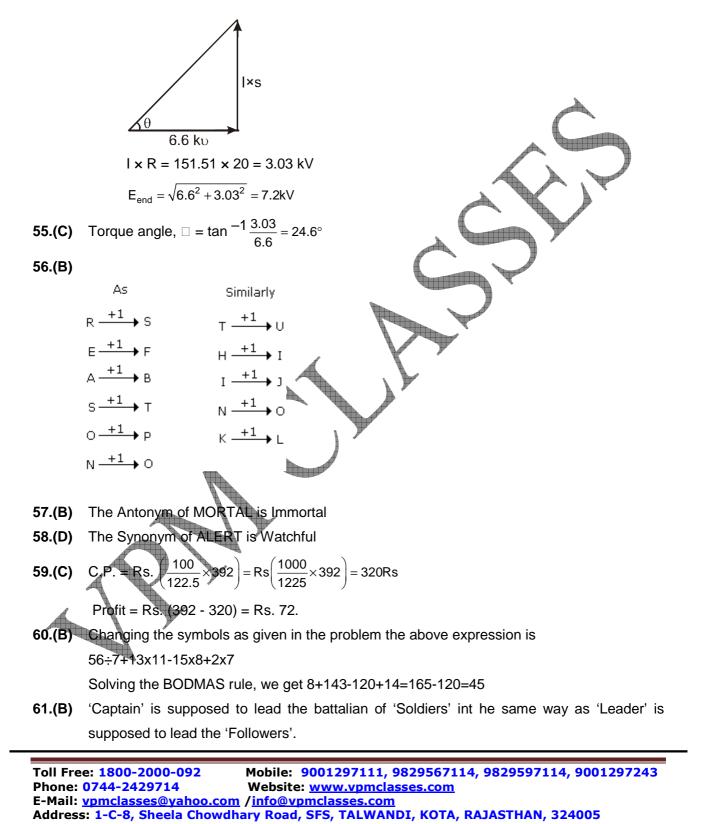






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- 62.(B) mutton:sheep
- 63.(C) My uncle decided to take me and my sister to the market.
- **64.(B)** The exports are more than imports in those years for which the exports to imports ratio are more than For Company A, such years are 1995, 1996 and 1997. Thus, during these 3 years, the exports are more than the imports for Company A.
- 65.(B) This is a simple subtraction series. Each number is 6 less than the previous number.

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