

PM CLASSES

UGC NET, GATE, CSIR NET, IIT-JAM, IBPS, CSAT/IAS, CLAT, ISEET, SLET, CTET, TIFR, NIMCET, JEST etc.



Toll Free: 1800-2000-092Mobile: 9001297111, 9829567114, 9829597114, 9001297243Phone: 0744-2429714Website: www.vpmclasses.comE-Mail: vpmclasses@yahoo.com/info@vpmclasses.comAddress: 1-C-8, Sheela Chowdhary Road, SFS, TALWANDI, KOTA, RAJASTHAN, 324005



Phone: 0744-2429714 Website: <u>www.vpmclasses.com</u> E-Mail: <u>vpmclasses@yahoo.com</u> /<u>info@vpmclasses.com</u> Address: 1-C-8, Sheela Chowdhary Road, SFS, TALWANDI, KOTA, RAJASTHAN, 324005



Phone: 0744-2429714 Website: <u>www.vpmclasses.com</u> E-Mail: <u>vpmclasses@yahoo.com</u> /<u>info@vpmclasses.com</u>

Address: 1-C-8, Sheela Chowdhary Road, SFS, TALWANDI, KOTA, RAJASTHAN, 324005





(C)
$$K \leq \frac{1}{3}$$

(D) $K \ge \frac{1}{3}$

- **7.** A can solve 90% of the problems given in a book and B can solve 70%. What is the probability that at least one of them will solve a problem, selected at random from the book?
 - (A) 0.16
 - (B) 0.63
 - (C) 0.97
 - (D) 0.20
- 8. An pn junction diode is operating in reverse bias region. The applied reverse voltage, at which the ideal reverse current reaches 90% of its reverse saturation current, is
 - (A)- 59.6 mV
 - (B) 2.7 mV
 - (C) 4.8 mV
 - (D) 42.3 m
- 9. Following are the value of a function

y(x): y(-1) = 5, y(0), y(1) = 8

 $\frac{dy}{dt}$ at x = 0 as per Newton's central difference scheme is_____.

10, In the network of Fig. , all initial condition are zero. The damping exhibited by the network is

Toll Free: 1800-2000-092Mobile: 9001297111, 9829567114, 9829597114, 9001297243Phone: 0744-2429714Website: www.vpmclasses.comE-Mail: vpmclasses@yahoo.com/info@vpmclasses.comAddress: 1-C-8, Sheela Chowdhary Road, SFS, TALWANDI, KOTA, RAJASTHAN, 324005



UGC NET, GATE, CSIR NET, IIT-JAM, IBPS, CSAT/IAS, CLAT, ISEET, SLET, CTET, TIFR, NIMCET, JEST etc.





PM CLASSES

UGC NET, GATE, CSIR NET, IIT-JAM, IBPS, CSAT/IAS, CLAT, ISEET, SLET, CTET, TIFR, NIMCET, JEST etc.



12. In the network shown in the figure, the effective resistance faced by the voltage source



13. Consider the signed binary number A = 01010110 and $B = 1110 \ 1100$ where B is the 1's complement and MSB is the sign bit. In list-I operation is given, and in list-II resultant binary number is given.

Toll Free: 1800-2000-092Mobile: 9001297111, 9829567114, 9829597114, 9001297243Phone: 0744-2429714Website: www.vpmclasses.comE-Mail: vpmclasses@yahoo.com/info@vpmclasses.comAddress: 1-C-8, Sheela Chowdhary Road, SFS, TALWANDI, KOTA, RAJASTHAN, 324005



INI CLASSE

UGC NET, GATE, CSIR NET, IIT-JAM, IBPS, CSAT/IAS, CLAT, ISEET, SLET, CTET, TIFR, NIMCET, JEST etc.



15. In silicon at T = 300 K if the Fermi energy is 0.22 eV above the valence band energy, the value of p_0 is

Toll Free: 1800-2000-092Mobile: 9001297111, 9829567114, 9829597114, 9001297243Phone: 0744-2429714Website: www.vpmclasses.comE-Mail: vpmclasses@yahoo.com/info@vpmclasses.comAddress: 1-C-8, Sheela Chowdhary Road, SFS, TALWANDI, KOTA, RAJASTHAN, 324005





(C) a, c, d

(D) All

18. The circuit shown in Fig-I is replaced by that in Fig-II. If current I remains the same, then R₀ will be _____.



Toll Free: 1800-2000-092Mobile: 9001297111, 9829567114, 9829597114, 9001297243Phone: 0744-2429714Website: www.vpmclasses.comE-Mail: vpmclasses@yahoo.com/info@vpmclasses.comAddress: 1-C-8, Sheela Chowdhary Road, SFS, TALWANDI, KOTA, RAJASTHAN, 324005









- (B) 1
- (C) 2
- (D) 4
- An n-channel JFET having a pinch-off voltage (V_p) of −5V shows a transconductance (g_m) of 1 mA/V, when applied gate-to-source voltage (V_{gs}) is −3V. Its maximum transconductance (in mA/V) will be _____.
- 27. What is the maximum average effective input noise temperature that an amplifier can have if its average standard noise figure does not exceed 1.7?
 - (A) 203 K
 - (B) 215 K
 - (C) 235 K
 - (D) 255 K
- **28.** The aerial current of an AM transmitter is **18** A when unmodulated but increases to 20 A when modulated.The modulation index is
 - (A) 0.68
 - (B) 0.73
 - (C) 0.89 (D) None of the above
- **29.** A super heterodyne receiver is designed to receive transmitted signals between 5 and 10 MHz. High-side tuning is to be used. The tuning range of the local oscillator for IF frequency 500 kHz would be
 - (A) 4.5 MHz 9.5 MHz
 - (B) 5.5 MHz 10.5 MHz



E-Mail: <u>vpmclasses@yahoo.com</u> /<u>info@vpmclasses.com</u>

Address: 1-C-8, Sheela Chowdhary Road, SFS, TALWANDI, KOTA, RAJASTHAN, 324005



 Toll Free: 1800-2000-092
 Mobile: 9001297111, 9829567114, 9829597114, 9001297243

 Phone: 0744-2429714
 Website: www.vpmclasses.com

 E-Mail: vpmclasses@yahoo.com
 /info@vpmclasses.com

 Address: 1-C-8, Sheela Chowdhary Road, SFS, TALWANDI, KOTA, RAJASTHAN, 324005
 Dec 14





- (D) 632.2 🗆
- **36.** The radiation resistance of an antenna is 63 up and loss resistance 7 up. If antenna has power gain of 16, then directivity is
 - (A) 48.26 dB
 - (B) 12.5 dB
 - (C) 38.96 dB
 - (D) 24.7 dB
- **37.** The air filled cavity resonator has dimension a = 3 cm, b = 2 cm, C = 4 cm. The resonant frequency for the TM₁₁₀ mode is
 - (A) 5 GHz
 - (B) 6.4 GHz
 - (C) 16.2 GHz
 - (D) 9 GHz
- **38.** A practical DC current source provide 20 kW to a 50 load and 20 kW to a 200 load. The maximum power, that can be drawn from it, is
 - (A) 22.5 kW
 - (B) 45 kW (C) 30.3 kW (D) 40 kW
- **39.** The following results were obtained from measurements taken between the two terminal of a dissipated network



PM CLASSES

UGC NET, GATE, CSIR NET, IIT-JAM, IBPS, CSAT/IAS, CLAT, ISEET, SLET, CTET, TIFR, NIMCET, JEST etc.

Terminal voltage	12 V	0 V			
Terminal current	0 A	1.5 A			

The Thevenin resistance of the network is

- (A) 16 🗆
- (B) 8 🗆
- (C) 0
- (D) ∞

40. The following fields exist in charge free regions

- $P = 60 \sin (\Box t + 10x) u_z$
- $Q = \frac{10}{\rho} \cos(\omega t 2\rho) u\phi$
- $R = 3\rho^2 \cot \phi u_{\rho} = \frac{1}{\rho} \cos \phi u_{\phi}$
- $S = \frac{1}{r} \sin \theta \sin (\omega t 6r) u_{\theta}$

The possible electromagnetic fields are

(A) P, Q (B) R, S (C) P, R (D) Q, S

41. A signal is sampled at 8 kHz and is quantized using 8 bit uniform quantizer. Assuming SNR_q for a sinusoidal signal, the correct statement for PCM signal with a bit rate of R is

Toll Free: 1800-2000-092Mobile: 9001297111, 9829567114, 9829597114, 9001297243Phone: 0744-2429714Website: www.vpmclasses.comE-Mail: vpmclasses@yahoo.com/info@vpmclasses.comAddress: 1-C-8, Sheela Chowdhary Road, SFS, TALWANDI, KOTA, RAJASTHAN, 324005





Address: 1-C-8, Sheela Chowdhary Road, SFS, TALWANDI, KOTA, RAJASTHAN, 324005





E-Mail: <u>vpmclasses@yahoo.com</u> /<u>info@vpmclasses.com</u> Address: 1-C-8, Sheela Chowdhary Road, SFS, TALWANDI, KOTA, RAJASTHAN, 324005





- **50.** Value of the threshold voltage V_{TP} is_____
- 51. The ratio W/L is_____

Linked Answer Questions 52 and 53

The following two question refer to wide sense stationary stochastic processes

52. It is desired to generate a stochastic process (as voltage process) with power spectral density

$$\mathsf{S}(\Box) = \frac{16}{16 + \omega^2}$$

by driving a Linear-Time-Invariant system by zero mean white noise (as voltage process) with power spectral density being constant equal tom1. The system which can perform the desired task could be

- (A) first order lowpass R-L filter
- (B) first order highpass R-C filter
- (C) tuned L-C filter
- (D) sseries R-L filter
- 53. The parameters of the system obtained in Q . 78 would be
 - (A) first order R-L lowpass filter would have $R = 4\Box$, L = 4H
 - (B) first order R-C highpass filter would have $R = 4\Box$, C = 0.25 F
 - (C) tuned L-C filter would have L = 4H, C = 4F
 - (D) series R-L-C lowpass filter would have R = 1 □, L = 4H, C = 4F

Linked Answer Questions 54 and 55

Consider the following Amplitude Modulated (AM) signal, where $f_m < B$

Toll Free: 1800-2000-092Mobile: 9001297111, 9829567114, 9829597114, 9001297243Phone: 0744-2429714Website: www.vpmclasses.comE-Mail: vpmclasses@yahoo.com/info@vpmclasses.comAddress: 1-C-8, Sheela Chowdhary Road, SFS, TALWANDI, KOTA, RAJASTHAN, 324005



Address: 1-C-8, Sheela Chowdhary Road, SFS, TALWANDI, KOTA, RAJASTHAN, 324005



Address: 1-C-8, Sheela Chowdhary Road, SFS, TALWANDI, KOTA, RAJASTHAN, 324005





UGC NET, GATE, CSIR NET, IIT-JAM, IBPS, CSAT/IAS, CLAT, ISEET, SLET, CTET, TIFR, NIMCET, JEST etc.

- (A) 30
- (B) 45
- (C) 60
- (D) 90
- 61. 'Captain' is related to 'Soldier' in the same way as 'Leader' is related to
 - (A) Chair
 - (B) Followers
 - (C) Party
 - (D) Minister
- 62. PORK:PIG
 - (A) rooster:chicken
 - (B) mutton:sheep
 - (C) steer:beef
 - (D) lobster:crustacean
- 63. My uncle decided to take and my sister to the market.
 - (A) I
 - (B) mine

(D) myself

- (C) me
- 64. Answer the question based on the given line graph.

Ratio of Exports to Imports (in terms of money in Rs. crores) of Two Companies Over the Years

Toll Free: 1800-2000-092Mobile: 9001297111, 9829567114, 9829597114, 9001297243Phone: 0744-2429714Website: www.vpmclasses.comE-Mail: vpmclasses@yahoo.com/info@vpmclasses.comAddress: 1-C-8, Sheela Chowdhary Road, SFS, TALWANDI, KOTA, RAJASTHAN, 324005



PM CLASSES

UGC NET, GATE, CSIR NET, IIT-JAM, IBPS, CSAT/IAS, CLAT, ISEET, SLET, CTET, TIFR, NIMCET, JEST etc.





M CLASSES

UGC NET, GATE, CSIR NET, IIT-JAM, IBPS, CSAT/IAS, CLAT, ISEET, SLET, CTET, TIFR, NIMCET, JEST etc.

Answer key

																4	A	4		
Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	ີ 18	19	20
Answer	В	В	D	В	D	A	С	A	1.5	В	В	3 ohm	D	1/2 J	A	2/13	C	4R	Ģ	- 0.05 mho
Question	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Answer	А	В	А	80 ohms	С	2.5	А	А	В	С	D	D	А	С	В	В	D	А	В	А
Question	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Answer	В	В	D	D	D	С	С	С	Α	- 2.33 V	25	A	A	G J	B	В	В	D	С	В
Question	61	62	63	64	65															
Answer	В	В	С	В	В															

HINTS AND SOLUTIONS

1.(B) If $\Box_1, \Box_2, \ldots, \Box_n$ are the eigen values of a non - singular matrix, A , then A⁻¹ has the

eigen values $\frac{1}{\lambda_1}, \frac{1}{\lambda_2}, \dots, \frac{1}{\lambda_n}$ Thus eigen values of A⁻¹ are $\frac{1}{2}, \frac{1}{3}, \frac{-1}{3}$

2.(B) Let 2a and 2b be the major and minor axes of the ellipse

Area A = □ab

A

$$\log A = \log + \log a + \log b$$

$$\partial (\log A) = \partial (\log a) + \partial (\log a) + \partial (\log b)$$

$$\partial a = 0 + \frac{\partial a}{a} + \frac{\partial b}{b}$$

$$\frac{100}{A} \partial A = \frac{100}{a} \partial a + \frac{100}{b} \partial b$$

But it is given that $\frac{100}{a}\partial a = 1$ and $\frac{100}{b}\partial b = 1$

Toll Free: 1800-2000-092Mobile: 9001297111, 9829567114, 9829597114, 9001297243Phone: 0744-2429714Website: www.vpmclasses.comE-Mail: vpmclasses@yahoo.com/info@vpmclasses.comAddress: 1-C-8, Sheela Chowdhary Road, SFS, TALWANDI, KOTA, RAJASTHAN, 324005





Phone: 0744-2429714 Website: <u>www.vpmclasses.com</u> E-Mail: <u>vpmclasses@yahoo.com</u> /<u>info@vpmclasses.com</u>

Address: 1-C-8, Sheela Chowdhary Road, SFS, TALWANDI, KOTA, RAJASTHAN, 324005



PM CLASSES

UGC NET, GATE, CSIR NET, IIT-JAM, IBPS, CSAT/IAS, CLAT, ISEET, SLET, CTET, TIFR, NIMCET, JEST etc.

11.(B) For D off,
$$u_0 = \frac{10}{20} - \frac{10}{20} = 3.33V$$
.
For $v_1 \le 3.33 + 0.7 = 4.03V$, $v_0 = 3.33V$
For $v_1 \ge 4.03V$, $v_0 = v_1 - 0.7$
For $v_1 = 10V$, $v_0 = 9.3V$
12. 3 ohm
Current through the 4-ohm resistor = $i - \frac{i}{4} = \frac{3i}{4}$.
Therefore, the voltage drop across it
 $= \left(\frac{3i}{4}\right) \times 4 = 3i$ which must equal V.
Thus effective resistance faced by theteoltage source is 3 \square
13.(D) Here \overline{A} , \overline{B} are 1's complement.
A + B, A 01010110
B + 1101000
 $A + B$, $A = 11101100$
 $\overline{A} + 1010001$

 Toll Free: 1800-2000-092
 Mobile: 9001297111, 9829567114, 9829597114, 9001297243

 Phone: 0744-2429714
 Website: www.vpmclasses.com

 E-Mail: vpmclasses@yahoo.com
 /info@vpmclasses.com

 Address: 1-C-8, Sheela Chowdhary Road, SFS, TALWANDI, KOTA, RAJASTHAN, 324005







16. $\frac{2}{13}$

Assume current flowing as shown 2Ω ≨zΩ <u>≨2Ω</u> ≷2Ω 1 amp V.C- $V_2 = 4 \times 1 = 4 V$ $I_1 = \frac{V_2}{2} \Rightarrow \frac{4}{2} = 2$ Amp. \Box $\Box_{\Box} = 2 + 1 = 3$ A. $V_{A} = V_{2} + 2 \times 3$ $V_A = 4 + 6 = 10 V$ $I_3 = \frac{10}{2} = 5 A$ $\Box_4 = \Box_3 + \Box_2 = 8A$ $V_1 = V_A + 8 \times 2 = 10 + 16 = 26 V.$ 17.(C) Only statement (b) is false . For example $S_1 \cdot y[n] = x[n] + b$, and $S_2 \cdot y[n] = x[n] - b$, where $b \neq 0$ $S{x[n]} = {S_2 { x [n]} } = S_2 {x [n] + b = x [n]}$ Hence S is linear. 18. 4R

Toll Free: 1800-2000-092Mobile: 9001297111, 9829567114, 9829597114, 9001297243Phone: 0744-2429714Website: www.vpmclasses.comE-Mail: vpmclasses@yahoo.com/info@vpmclasses.comAddress: 1-C-8, Sheela Chowdhary Road, SFS, TALWANDI, KOTA, RAJASTHAN, 324005Page 31





Pole of inverse system at : $z = -\frac{1}{2}$

For this system and inverse system all poles are inside |z| = 1. So both system are both causal and stable.

20. – 0.05 mho

The equivalent Y – parameter circuit of given circuit is



21.(A) In open loop system change will be 10% in C1 also but in closed loop system change will

be less $C_2 = \frac{10}{10+1} = \frac{10}{11}$, $C'_2 = \frac{9}{9+1} = \frac{9}{10}$, C_2 is reduced by 1 %.

Toll Free: 1800-2000-092Mobile: 9001297111, 9829567114, 9829597114, 9001297243Phone: 0744-2429714Website: www.vpmclasses.comE-Mail: vpmclasses@yahoo.com/info@vpmclasses.comAddress: 1-C-8, Sheela Chowdhary Road, SFS, TALWANDI, KOTA, RAJASTHAN, 324005



UGC NET, GATE, CSIR NET, IIT-JAM, IBPS, CSAT/IAS, CLAT, ISEET, SLET, CTET, TIFR, NIMCET, JEST etc.

22.(B) Routh table is as shown in fig.

s ^s	1	5	1	
s ⁴	3	4	3	
s ³	3.67	0		
s ^z	4	3		
s1	-2.75			\checkmark
s°	3			

In RHP -2 poles. In LHP - 3 poles.

23.(A) System has two different poles on negative real axis. So response is over damped.

24. 80 ohms

Output voltage is regulated to the zener voltage 6



Mobile: 9001297111, 9829567114, 9829597114, 9001297243 Toll Free: 1800-2000-092 Phone: 0744-2429714 Website: www.vpmclasses.com E-Mail: vpmclasses@yahoo.com / info@vpmclasses.com Address: 1-C-8, Sheela Chowdhary Road, SFS, TALWANDI, KOTA, RAJASTHAN, 324005





Address: 1-C-8, Sheela Chowdhary Road, SFS, TALWANDI, KOTA, RAJASTHAN, 324005



 $i = 30 \text{ A}, P_{\text{max}} = \frac{(30)^2 \times 100}{4} = 22.5 \text{kW}$

39.(B) $R_{TH} = \frac{v_{oc}}{i_{sc}} = \frac{12}{1.5} = 8\Omega$

40.(A)
$$\nabla \cdot \mathbf{P} = 0, \ \nabla \times \mathbf{p} = -\frac{\partial \mathbf{P}_z}{\partial x} \mathbf{u}_y \neq 0$$

P is a possible EM field

$$\nabla \cdot \mathbf{Q} = \mathbf{0}, \ \nabla \times \mathbf{Q} = -\frac{1}{\rho} \frac{\partial}{\partial \rho} \ [10 \ \cos(\Box t - 2\Box)] \mathbf{u}_z \neq \mathbf{0}$$

$$\nabla$$
. R = $\frac{1}{\rho} \frac{\partial}{\partial \rho} (3\rho^2 \cot \phi)$. $\frac{\sin \phi}{\rho} \neq 0$, R Q is a possible EM field

is not an EM field.

$$\nabla . S = \frac{1}{r^2 \sin \theta} \sin(\omega t - 6r) \frac{\partial \left(\sin^2 \phi\right)}{\partial r} \neq$$

S is not an EM field . Hence (A) is correct.

41.(B) Bit Rate =
$$8k \times 8 = 64$$
 kbps
(SNR)_q = 1.76 + 6.02n dB = 1.76 + 6.02 × 8 = 49.8 dB

42.(B) Since X (f) has spectral peak at 1 kHz so at the output of first modulator spectral peak will be at(10 + 1) kHz and (10 - 1)kHz. After passing the HPF frequency component of 11 kHz will remain. The output of 2nd modulator will be(13 ± 11) kHz. So Y(f) has spectral peak at 2 kHz and 24 kHz.

43.(D) A shunt feed back decreases R_i and increases R₀

44.(D)
$$100110_2 = 2^5 + 2^2 + 2^1 = 38_{10}$$

 $26_{16} = 2 \times 16 + 6 = 38_{10}$

Toll Free: 1800-2000-092Mobile: 9001297111, 9829567114, 9829597114, 9001297243Phone: 0744-2429714Website: www.vpmclasses.comE-Mail: vpmclasses@yahoo.com/info@vpmclasses.comAddress: 1-C-8, Sheela Chowdhary Road, SFS, TALWANDI, KOTA, RAJASTHAN, 324005





C L A S S E S UGC NET, GATE, CSIR NET, IIT-JAM, IBPS, CSAT/IAS, CLAT, ISEET, SLET, CTET, TIFR, NIMCET, JEST etc.

$$f(z) = -1 + z (2) + \frac{z^2}{2!}(-4) + \frac{z^3}{3!}(12) + \dots$$
$$= -1 + 2z - 2z^2 + 2z^3 \dots$$
$$f(z) = -1 + 2 (z - z^2 + z^3 \dots)$$

47.(C)
$$\left. \frac{l_2}{l_1} \right|_{v_2=0}$$
, $= y_{21} = \frac{1}{10} = 0.1$

Interchanging the port $\frac{\dot{I_2}}{V_1} = 0.1$, $\dot{I_2} = 100 \times 0.1 = 10$

48.(C) The current source will forward bias the base-emitter junction and the collector base junction will then be reverse biased. Therefore the transistor is in the forward active region

$$I_{C} = I_{S}e^{\left(\frac{V_{BE}}{V_{L}}\right)}$$

$$IC = \Box_{F}I_{\Box} = 50 \times 250 \times 10^{-6} = 12.5 \times 10^{-3} \text{ A}$$

$$V_{BE} = V_{1} \ln \left(\frac{I_{C}}{I_{S}}\right) = 0.0259 \ln \left(\frac{12.5 \times 10^{-3}}{10^{-16}}\right) = 0.84 \text{ V}$$

$$49.(A) \quad I_{E} = (\Box_{F} + 1)_{B} = 12.75 \text{ mA}$$

$$I_{1} = -I_{E} = -12.75 \text{ mA}$$

$$50. \quad -2.33 \text{ V}$$

$$\Box_{D} = k_{1}[V_{SG} + V_{TP}]^{2}$$

$$\Box_{D} = \frac{I_{D1}}{I_{D2}} = \frac{(V_{Sa_{1}} + V_{TP})^{2}}{(V_{Sa_{2}} + V_{TP})^{2}}$$

 Toll Free: 1800-2000-092
 Mobile: 9001297111, 9829567114, 9829597114, 9001297243

 Phone: 0744-2429714
 Website: www.vpmclasses.com

 E-Mail: vpmclasses@yahoo.com
 /info@vpmclasses.com

 Address: 1-C-8, Sheela Chowdhary Road, SFS, TALWANDI, KOTA, RAJASTHAN, 324005





 $=\frac{0.5^2\times100}{4}=6.25$

55.(B)

Noise power (Area endored by the spectrum) = $N_0 B$

Ratio of average side band honour to mean

noise honer =
$$\frac{25}{4N_0B} = \frac{6.25}{N_0B}$$

56.(B)

As	Similarly
R S	T +1 ∪
E +1 → F	H I
A +1 → B	I J
S _+1 → T	N +1 → 0
0 _+1 → P	K L
N _+1 → O	-

- **57.(B)** Mortal means causing or capable of causing death while Immortal means one who is not subject to death.
- **58.(D)** Alert means engaged in or accustomed to close observation, ie. Watchfulness.

59.(C) C.P. = Rs.
$$\left(\frac{100}{122.5} \times 392\right) = \text{Rs}\left(\frac{1000}{1225} \times 392\right) = 320\text{Rs}$$

Profit = Rs. (392 - 320) = Rs. 72.

60.(B) Changing the symbols as given in the problem the above expression is

56-7+13x11-15x8+2x7

Solving the BODMAS rule, we get 8+143-120+14=165-120=45

 Toll Free: 1800-2000-092
 Mobile: 9001297111, 9829567114, 9829597114, 9001297243

 Phone: 0744-2429714
 Website: www.vpmclasses.com

 E-Mail: vpmclasses@yahoo.com
 /info@vpmclasses.com

 Address: 1-C-8, Sheela Chowdhary Road, SFS, TALWANDI, KOTA, RAJASTHAN, 324005





UGC NET, GATE, CSIR NET, IIT-JAM, IBPS, CSAT/IAS, CLAT, ISEET, SLET, CTET, TIFR, NIMCET, JEST etc.

- **61.(B)** 'Captain' is supposed to lead the battalian of 'Soldiers' int he same way as 'Leader' is supposed to lead the 'Followers'
- **62.(B)** Pork is meat from a domestic hog or pig. Similarly, mutton is meat from a mature domestic 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 1. 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.