

| | 190 V Th | the first sta | ge is 10 | and overall in | put effecti | and T _{es} = 600 K (output we noise temperature is |
|-------|--|---------------|----------------------|--|-------------|--|
| | 190 K. The available power gain (A) 12 (B) 14 | of the seco | | The second secon | | 19 |
| | (A) 12 (B) 14 | | (C) | 16 | (D) | 18 |
| 2. | The root of equation $x^3 - 4x - 9$ | = 0 using | the bise | ction method | in four sta | ages for $x \in [2,3]$ is: |
| | (A) 2.7065 (B) 2.68 | 875 | (C) | 2.750 | (D) | None of the above |
| 3, | For CT-LTI systems, consider 51 | and S2 sta | tements | | | |
| | S1: There is no BIBO stable sys | | | | of the cor | nplex plane. |
| | S2 : There is non-causal and B plane. | | | | | |
| | State which one among the follow | ving is cor | ect ? | | | |
| | The second secon | (B) | | S1 and S2 ar | e false | |
| | | (D) | - | S1 is true | | |
| | (C) Only S2 is true | | | | | |
| 4. | Which of the following are the con | nponents | of WiMa | ax ? | | |
| | (A) SS/MS (B) ASN | | (C) | | (D) | All the above |
| | A combinational network has four | inputs (A | B. C. I |) and one or | itput (F). | The output is zero if and |
| 5. | only if three or four of the inputs a | re '0'. The | maxter | m expansion | of F is: | |
| | (A) $F = \prod M(0,1,2,4,8)$ | (B) | $F = \sum_{i=1}^{n}$ | m(0,1,2,3,4,5, | 6,8,10,12) | |
| | C) $F = \prod M(7,11,13,14,15)$ | (D) | F = [] | m(7,11,13,14, | 15) | |
| , | THE FIG | | | | | |
| w | hich is not an application of artifi | cial intelli | gence? | | | |
| (A | | (B) | Chatb | | | |
| | | (D) | DBMS | | | - F |
| (C) | Librar | | | | | |
| | til | 77.5 | | | | |
| Mos | st of the weather radars use | (B) | linear | polarization | | |
| (A) | circular polarization | (B) | | l polarizatio | n | |
| (C) | horizontal polarization | (D) | veruca | posarizanie | b (4 | Mag Well D. |
| Mhinl | n one does not belong to TDMA | standard | of seco | nd-generati | on netwo | rks? |
| | GSM (B) IS-136 | | (C) A | MPS | (D) | PDC |

901/C

| 3 |
|--|
| (D) None of the above |
| (B) If $t_2 + t_1 = t_4 + t_3$, then $A_{12} = A_{34}$. |
| Charles of the latest state of the latest stat |
| (2) 20di (1) and (4) |
| (B) both (2) and (3) (D) both (1) and (4) |
| (R) both (2) and (2) |
| nce |
| 8 |
| ne de |
| trans impedance receiver are: |
| HE EDRING |
| A CONTRACTOR OF THE PARTY OF TH |
| |
| |
| |
| erive motor |
| cording head |
| ndensing magnetic lens |
| ectron Gun |
| lumn 2 |
| |
| |
| |
| |
| |
| tion from other base station is more than the serving |
| andoff, when: |
| |
| |
| |
| ng array as parameter |
| ng re-locatable code |
| in the second column. Implementation |
| |

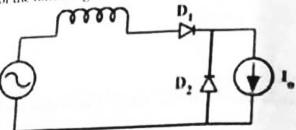
In an OSI reference model, which layer provides physical address to each machine?

(A) Physical layer

Data Link Layer (C)

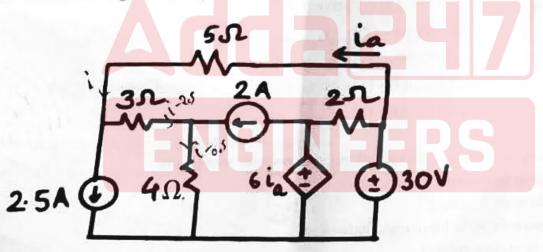
Network Layer (D) Transport Layer

In the following circuit, assume the diodes are ideal, the inductance is small, and lof0. Which one 15. of the following statements is true?



- D₁ conducts for greater than 180° and D₂ conducts for greater than 180° (A)
- D₂ conducts for more than 180° and D₁ conducts for 180° (B)
- D₁ conducts for 180° and D₂ conducts for 180° (C)
- D₁ conducts for greater than 180° and D₂ conducts for 180° (D)
- The minimum doppler shift is _ 16.
 - (A) zero

- (B) double of transmitter frequency
- transmitter frequency (C)
- (D) half of transmitter frequency
- In the following circuit, the power dissipation in the 2 Ω resistor is:



- 76.4 W
- 52.5 W (B)
- 305.6 W (C)
- (D) 210.0 W

pipelined processor's performance deteriorates if:

The pipelined stages are with different delays Consecutive instructions depend on each other Hardware resources are shared by pipeline stages

If the path difference of two waves with single source travelling by different paths to arrive at the 19. same point, is $\lambda/2$, what would be the phase difference between them?

(A) $\beta + (\lambda/2)$

 $\beta \times (\lambda/2)$

(C) B - (\(\lambda/2\)

B/(A/2)

If in a rectangular waveguide for which a = 2b, the cut-off frequency for TE₀₂ mode is 12 GHz, the 20. cut-off frequency for TMn mode is:

(A) 3 GHz

(B) 3√5 GHz

(C) 645 GHz

(D) 12 GHz

Which option is true regarding the number of computations required to compute DFT at any one 21. value of 'k'?

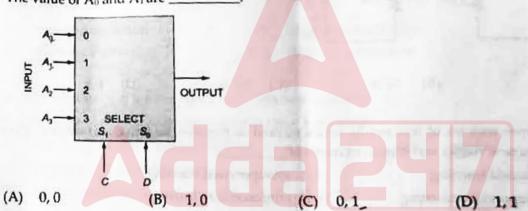
(A) 4N-2 real multiplications and 4N real additions

4N real multiplications and 4N-4 real additions

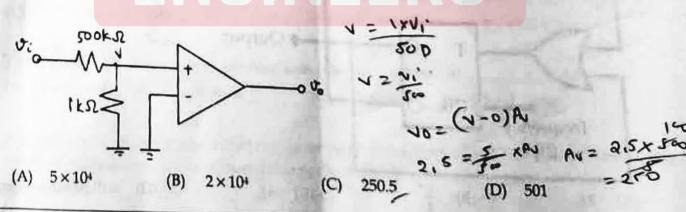
(C) 4N-2 real multiplications and 4N+2 real additions

(D) 4N real multiplications and 4N-2 real additions

Consider the 2-bit multiplexer (MUX) shown in the figure. The output to be the XOR of C and D, 22. The value of An and An are_



23. For the circuit shown below the output voltage is $v_0 = 2.5 \text{ V}$ in response to input voltage $v_1 = 5 \text{ V}$. The finite open-loop differential gain of the op-amp is:



E01/C

| 24. | In a dispersive medium, the group velocity is: (A) Less than the phase velocity only (B) Equal to the phase velocity only (C) More than the phase velocity, depending on the nature of the dispersive medium (D) More than the phase velocity |
|------|---|
| | atallite launched in 1965 was called |
| 25 | The first geostationary satellite launched in 1965 was called (B) ANIK |
| 25. | (A) EARLY BIRD (MICEINA (D) MOLNIYA |
| | (C) WESTAN the 10 Ω resistor is |
| | (C) WESTAR Consider the circuit shown in the figure. The current I flowing through the 10 Ω resistor is |
| 26. | Consider the circuit site. |
| | 100 20 |
| | 1Ω I 10Ω W |
| | |
| | + \ \\ \dag{\pmatrix} = \delta 1\Omega \frac{1}{3}\V |
| | $3V + \frac{3}{2}\Omega$ |
| | |
| | |
| | (C) 0.1 A (D) 1 A |
| | (B) 10 A |
| | (A) 0 A' You are given reviews of few netflix series marked as positive, negative and neutral. Classifying You are given reviews of few netflix series is an example of |
| | reviews of few netflix series marked as positive, the |
| 27. | You are given reviews of few fictions of the first reviews of a new netflix series is an example of |
| | reviews of a new netflix series is an example unsupervised learning (B) |
| | (A) supervised learning (D) reinforcement learning |
| | (C) semisupervised learning (D) reinforcements (D) |
| | learned in the following circuit. If input clock frequent |
| 28. | (C) semisupervised learning Initially the flip flop is cleared in the following circuit. If input clock frequency is f_c , then output f_c then output |
| | frequency will be |
| VIII | Initially the flip flop is cleared in the following circuit. If input to frequency will beOutputOutputOutputOutput |
| M | |
| | Output |

(C) 4fc

(D) will be same as input

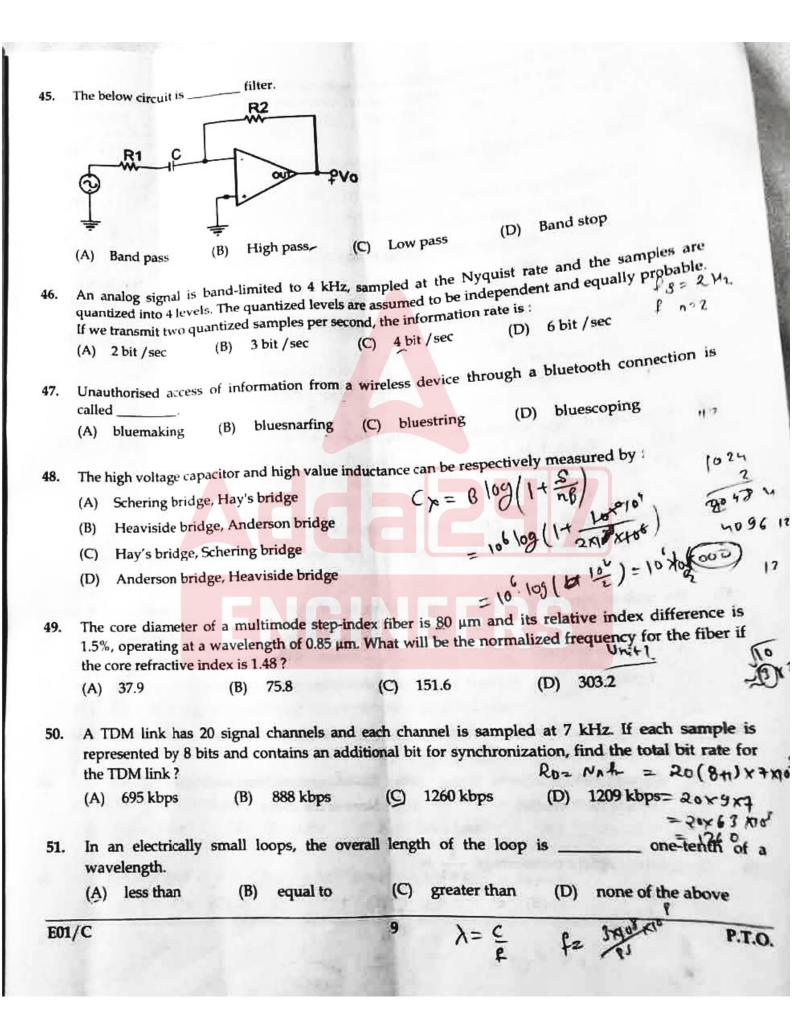
Clk Q

(B) $\frac{f_c}{2}$

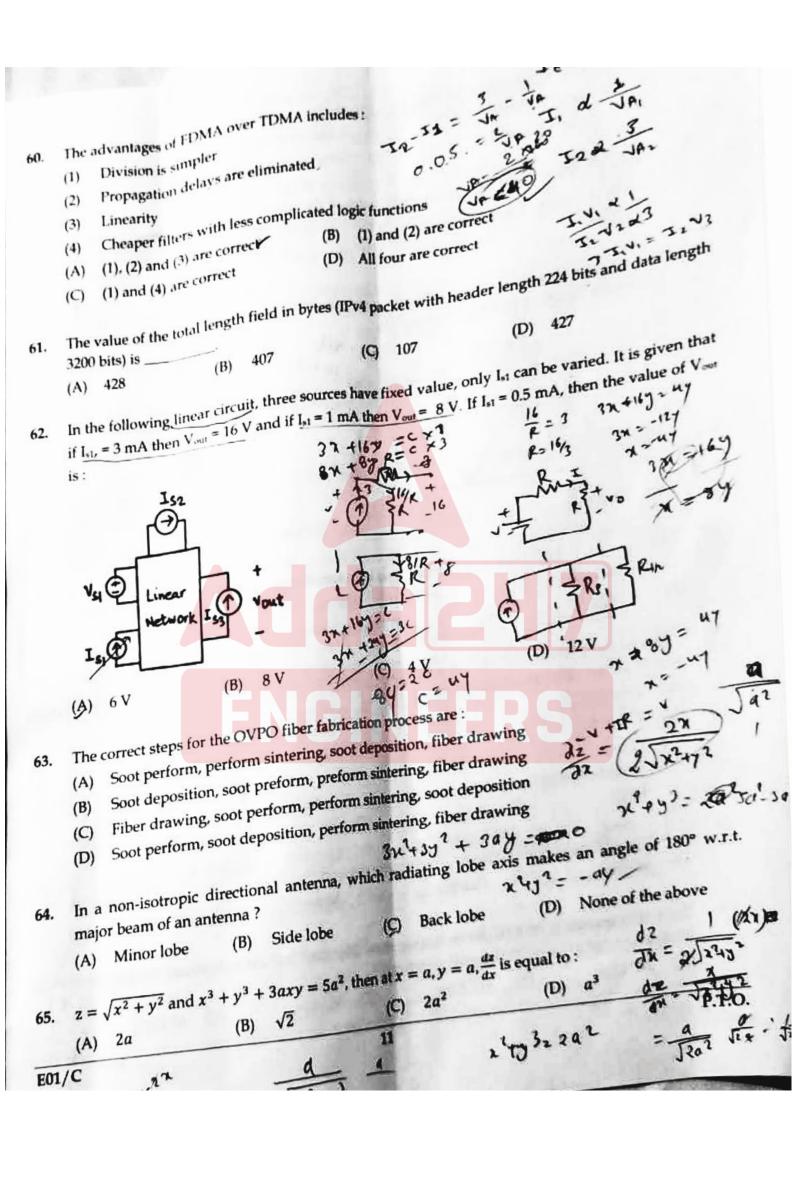
frequency (fi)

| | | XINATIO . LO - OR M | (u) | No. |
|------|---|--|---|-------------------------------|
|). (| Consider a discrete time signal : | Always the of x | | |
| , | $x[n] = 0.2x_t[n - n_0] - 2$ | given by, | | 1 |
| 1 | A discrete transformed signal | 9.00 | | TELL |
| 2 | $x_{1}[n] = 5x[n + n_{0}] + N$ | | (D) -10 | 1.5 |
| • | The value of constant K is: (A) (B) 10 | (C) -5 | (12) | - WE |
| - | (A) -2 | | $\overline{X_1} = 3, \overline{X_2} = 6,$ | 100 |
| | Languagent randon | variables X1, X2 and X3, have | mean values | - |
| 1 | Three statistically independent | $(X_2, X_3) = X_1 + 3X_2 + 4X_3 \text{ is}$: | mean values $\overline{X}_1 = 3, \overline{X}_2 = 6,$ (D) 0 3410 \checkmark | |
| | and $X_3 = -2$. The mean (B) 29 | (C) 1 | (D) 0 3410 D | |
| | (A) 13 ₋ | | | 200 |
| | At which layer, SONET regenerators of | lo function? | | - 6 |
| | At which layer, 50 NE | (B) Data link layer | | |
| | (A) OSI model layer | (D) Network layer | | |
| | (C) Physical layer | | | |
| | The 'ORG O' instruction's type is: | | | |
| | (A) Pseudo instruction | (B) High level instruct | ion | |
| | (C) Machine instruction | (D) Memory instruction | n | |
| | | | | |
| | The one advantage of setting up a D | MZ with two firewalls is tha | t: | |
| • | (A) You can control where traffic g | oes in three networks | | |
| | (B) You can do stateful packet filt | | | |
| | | | | |
| | | ice | | |
| | (D) Improved network performan | | | |
| | m | renerating four messages V | rith probabilities 0.5, 0.25, 0.125 a | nd |
| | The entropy of a message source | ellerating four mesonges | - (a) +0 2 (lot(4)) | |
| | | | - 0.5 [BILL 1 TOIL 3 [B. 1.1.] | 10.127/09 |
| | 0.125 is | (P) 2 22 hite / mass | = 0.5 (a)(1) +0.125×3 +(0.125× | t 0.127 log |
| | 0.125 is (A) 1.0 bits/message | (B) 3.32 bits/ mess | age = 0.5+0.25×2 +(0.124× | 5) 10.12769 5) 10.12169 |
| | 0.125 is | (B) 3.32 bits/ mess (D) 5.93 bits/ mess | age = 0,5+0,5+250 , | +0.12769 +0.12169 |
| | 0.125 is | (B) 3.32 bits/ mess (D) 5.93 bits/ mess | =1.21 | +0.12769 5) MB +0.12149 |
| | 0.125 is (A) 1.0 bits/message | (B) 3.32 bits/ mess (D) 5.93 bits/ mess | tenna inradar. | 5) AS |
| | 0.125 is (A) 1.0 bits/message (C) 1.75 bits/ message Transmission and reception both | (B) 3.32 bits/ mess (D) 5.93 bits/ mess | tenna in radar. | 10.12769 3) MB 10.12149 |
| | 0.125 is | (B) 3.32 bits/ mess (D) 5.93 bits/ mess are done using the same an | tenna in radar. | 5) AS |
| 5. | 0.125 is | (B) 3.32 bits/ mess (D) 5.93 bits/ mess are done using the same and artic (C) Monopole | tenna in radar. ole (D) Dipole | 3) AB |
| 5. | 0.125 is | (B) 3.32 bits/ mess (D) 5.93 bits/ mess are done using the same and the control of the control | tenna in radar. ole (D) Dipole d from a 230 V, 50 Hz, AC source | 3) AB |
| 5. | 0.125 is | (B) 3.32 bits/ mess (D) 5.93 bits/ mess are done using the same and the control of the control | tenna in radar. ole (D) Dipole d from a 230 V, 50 Hz, AC source | 5) PB +0.12149 |

| 37. | | type of duplex communic | auon is | used by a mobile pi | none. | | | | | |
|------------------------------|--|---|---------------------------------------|--|--------------|---------------------------------|--|--|--|--|
| | (A) | Half | (B) | Full | | Miller P. B | | | | |
| | (C) | Zero | (D) | Both (A) and (B) | | - | | | | |
| | | | | | | Marin Cally | | | | |
| 38. | Epit | axial growth is used in integrated | | | | | | | | |
| | (A) Because it produces low parasitic capacitance | | | | | | | | | |
| | (B) | Because it yields back-to-back is | olating | junctions | Ų. | ate | | | | |
| | (C) | To grow single crystal n-doped s | silicon o | on single-crystal p-t | ype substr | on n-hie | | | | |
| | (D) | To grow selectively single-cryst | al p-do | ped silicon of one | resistivity | on p-type substrate | | | | |
| | | different resistivity. | | | | | | | | |
| | | | | - 111 | | | | | | |
| 39. | The | frequency for satellite communica | tion sh | ould be | al frequen | cy | | | | |
| | (A) | more than the critical frequency | (B) | less than the critic | | THE SELECTION | | | | |
| | (C) | equal to the critical frequency | (D) | none of the above | | | | | | |
| | | | | to the makil | le station a | and MSC is | | | | |
| 40. | The | subsystem responsible for radio tr | ansmus | sion between moon | (D) | BSC | | | | |
| | (A) | BSS (B) NSS | | (C) OSS | (2) | | | | | |
| | Whic | h of the following relations are tr | ue if x(ı | n) is real? | | 13.29 kbps (= 106/09(1) | | | | |
| 42. | (A) | $X(\omega) = X(-\omega)$ | (B) | $X(\omega) = -X(-\omega)$ $X^{*}(\omega) = X(-\omega)$ | | 6 | | | | |
| 13. | (A) (C) Find t | $X(\omega) = X(-\omega)$ $X^*(\omega) = X(\omega)$ | (B) (D) | $X(\omega) = -X(-\omega)I$ $X^*(\omega) = X(-\omega)I$ | (D) | | | | | |
| 13. | (A) (C) Find t | $X(\omega) = X(-\omega)$ $X^*(\omega) = X(\omega)$ | (B) (D) | $X(\omega) = -X(-\omega)$ | (D) | | | | | |
| 13. | (A) (C) Find to | $X(\omega) = X(-\omega)$ $X^*(\omega) = X(\omega)$ | (B) (D) | $X(\omega) = -X(-\omega)I$ $X^*(\omega) = X(-\omega)I$ | (D) | | | | | |
| 13. | (A) (C) Find to | $X(\omega) = X(-\omega)$ $X^*(\omega) = X(\omega)$ The inverse Laplace transform of $X^*(\omega)$ $X^*(\omega) = X(\omega)$ The inverse Laplace transform of $X^*(\omega)$ $X^*(\omega) = X(\omega)$ $X^*(\omega) = X(\omega)$ $X^*($ | (B) (D) $\frac{s}{(s^2+4)}$ | $X(\omega) = -X(-\omega)$ $X^*(\omega) = X(-\omega)$ \overline{Z} $(C) t/4 \sin(2t)$ | (D) | | | | | |
| 13. (A | (A) (C) Find to | $X(\omega) = X(-\omega)$ $X^*(\omega) = X(\omega)$ the inverse Laplace transform of $\frac{1}{2}$ $\frac{1}{2}$ (B) $\frac{1}{2}$ (2t) $\frac{1}{2}$ the following operations: $\frac{1}{2}$ sing $\frac{1}{2}$ (-n) through a digital filt | (B) (D) $\frac{s}{(s^2+4)}$ | $X(\omega) = -X(-\omega)$ $X^*(\omega) = X(-\omega)$ \overline{Z} $(C) t/4 \sin(2t)$ | (D) | | | | | |
| (A) (Cor (i) (ii) | (A) (C) Find to | $X(\omega) = X(-\omega)$ $X^*(\omega) = X(\omega)$ the inverse Laplace transform of $A^*(\omega)$ $A^*(\omega) = X(\omega)$ $A^*(\omega) = X(\omega)$ | (B) (D) s (s^2+4) $er H(z)$ | $X(\omega) = -X(-\omega)$ $X^*(\omega) = X(-\omega)$ \overline{Z} $(C) t/4 \sin(2t)$ | (D) | | | | | |
| (A) (Cor (i) (ii) | (A) (C) Find to (A) (C) Find to (A) (C) Find to (C) Fi | $X(\omega) = X(-\omega)$ $X^*(\omega) = X(\omega)$ the inverse Laplace transform of $X^*(\omega) = X(\omega)$ $X^*(\omega) = X(\omega)$ the inverse Laplace transform of $X^*(\omega)$ $X^*(\omega) = X(\omega)$ $X^*(\omega) = X(\omega)$ | (B) (D) s (s^2+4) $er H(z)$ | $X(\omega) = -X(-\omega)$ $X^*(\omega) = X(-\omega)$ \overline{Z} $(C) t/4 \sin(2t)$ | (D) | | | | | |
| (A) (Cor (i) (ii) (ii) (P) | (A) (C) Find to (A) (C) Find to (C) Find t | $X(\omega) = X(-\omega)$ $X^*(\omega) = X(\omega)$ the inverse Laplace transform of $A^2/4 \sin(2t)$ $A^2/4 \sin(2t)$ | (B) (D) s (s^2+4) $er H(z)$ | $X(\omega) = -X(-\omega)$ $X^*(\omega) = X(-\omega)$ Z $(C) t/4 \sin(2t)$ | | t/4 sin(2t²) | | | | |
| (A) (Cor (i) (ii) (ii) (corr | (A) (C) Find to | $X(\omega) = X(-\omega)$ $X^*(\omega) = X(\omega)$ the inverse Laplace transform of $X^*(\omega) = X(\omega)$ $X^*(\omega) = X(\omega)$ the inverse Laplace transform of $X^*(\omega)$ $X^*(\omega) = X(\omega)$ $X^*(\omega) = X(\omega)$ | (B) (D) s (s ² +4) er H(z) | $X(\omega) = -X(-\omega)$ $X^*(\omega) = X(-\omega)$ $(C) t/4 \sin(2t)$ In order to realize | linear ph | t/4 sin(2t²) ase IIR filter is: | | | | |



| | constant constant | 20.00 |
|---------|---|-------------------|
| 52. | current change is pertricted to be less than any what is any | o mv |
| | (A) 1/ > 20 1/ (R) 1/1-1-1 | 1 4 |
| | met with in everyday domestic and | installation |
| 53. | Most common form of AC meters met with in everyday domestic and indus | N A |
| | are: | Nc |
| | (A) Mercury motor meters | トニュー |
| | (B) Commutator motor meters | Ja - 1 |
| | (C) Induction type single phase energy meters | 71-1 |
| | (C) and the above | VA = 127 |
| | (D) All of the above | on the data b |
| | (D) All of the above A device employing INTR line for device interrupt puts the CALL instruction | |
| 54. | A device employing INTR line its | |
| R | while: (B) HOLD is active | |
| | and the artive | |
| | (A) INTA Bactive (D) None of the de | 001111 |
| | (C) READY is active Determine the final response on cascading two signals $h(n) = \{1, -2, 3\}$ and $x(n) = \{0, 0, 1, -1, 2, 2, 1, 3\}$. | 0, 0, 1, 1, 1, 1, |
| | the final response on cascading two signals and 2 2 1.3 | |
| 55. | Determine the limit (8) (0, 0, 1, 1) | |
| | (A) (1, -2.4.1, 1.1) (D) (0, 0, 3, 1, 1, 1, 1) | |
| | (C) [0, 0, 3] | |
| | to density is a field. | vector |
| | Electric flux is a field, and its delisity because (C) scalar, scalar (D) scalar, | |
| 30. | (A) vector, vector (B) vector, scalar | - 330 |
| | The ratio of maximum displacement deviation to full scale deviation of the instr | ument is known |
| | la sument deviation to full scale deviation | |
| 57. | The ratio of maximum displacement | |
| 31. | n mir deviation | |
| | | |
| | (D) | 1000 |
| (| (C) Linearity covering the Asia Pacific area, a | n area of over 11 |
| | covering the Asia Pacific area, | 100 |
| T | Collular System, united | |
| mi | illion square miles. | |
| Acres 6 | Caruda MEO satellite | |
| (A) | Garuda LEO satellite (D) None of the above | |
| | Garda LEO succession | |
| | 1. | 10 |
| | inverse Laplace transform of $\frac{1}{s+1}$ is: (C) 1 (D) e^{-1} | |
| | inverse Laplace transform of s+1 (D) e ⁻¹ | |
| | | |



| 1. / (2. / (3. I | (C) d There is would (A) 12 (C) 17 (A) 4×16 (A) Fo A network (A) Sin | oresentation lata link is an Etherno be the valid of 72.16.112.0 72.16.0.0 decoder man our ork Bridge de harmonic is rate at which | y be co (B) evice co (B) 20 kH | nstructed us Five nnects two o Duplicate z in an anal | (B) (D) ing or more | re ass st? 172.1 172.1 (C) e netv (C) ta. Th | ication igned an IP a 6.96.0 6.255.0 × 4 decoders. | (D) | Three LAN None zed using 40 kbps | network. |
|------------------------|--|--|-----------------------------------|--|--|---|--|------------------------|--|-------------------------|
| 1. / (2. / (3. 1 | (C) d There is would (A) 12 (C) 17 (A) 4×16 (A) Fo A network (A) Sin | oresentation data link is an Ethernobe the valid of 72.16.112.0 72.16.0.0 decoder manur ork Bridge de harmonic is | y be co (B) evice co (B) 20 kH | nstructed us Five nnects two o Duplicate z in an anal | (D) er wer his hor (B) (D) ing or more | appi re ass st? 172.1 172.1 (C) e netv (C) | ication igned an IP a 6.96.0 6.255.0 x 4 decoders. Six vorks to form Multi | (D) a (D) een digiti | Three LAN None zed using | network. |
| 1. / | (C) d There is would (A) 17 (C) 17 (A) 4×16 (A) Fo A netwo | oresentation lata link is an Etherno be the valid of 72.16.112.0 72.16.0.0 decoder man | y be co (B) evice co (B) | nstructed us Five nnects two o | (D) er wer his hor (B) (D) ing | app. re ass st? 172.1 172.1 (C) e netv | ication igned an IP a 6.96.0 6.255.0 x 4 decoders. Six vorks to form Multi | (D) | Three LAN None | network. |
| 1. / | (C) d There is would (A) 17 (C) 17 (A) 4 × 16 (A) Fo | oresentation lata link is an Etherno be the valid of 72.16.112.0 72.16.0.0 | y be co | nstructed us | (D) er wer his hor (B) (D) | appi re ass st? 172.1 172.1 2; (C) | ication igned an IP a 6.96.0 6.255.0 × 4 decoders. Six | address of | 172.16.11 M W W W Three | 12.1/25. Wh |
| 1. / | (C) d There is would (A) 12 (C) 12 | oresentation lata link is an Etherna be the valid of 72.16.112.0 72.16.0.0 | subnet y be co | address for t | (D) er wei his hos (B) (D) | app. re ass st ? 172.1 172.1 | ication igned an IP a 6.96.0 6.255.0 × 4 decoders. | address of | F 172.16.11 | |
| | (C) d There is would (A) 17 (C) 17 | oresentation lata link is an Etherno be the valid of 72.16.112.0 72.16.0.0 | subnet | address for t | (D) er wei his hos (B) (D) | app. re ass st? 172.1 | ication igned an IP a 6.96.0 6.255.0 | | F 172.16.11 | |
| | (C) d There is would (A) 12 | oresentation lata link is an Etherno be the valid of 72.16.112.0 | et port subnet | on the route | (D) er wer his hor (B) | appi re ass st ? | ication igned an IP a 6.96.0 | | | |
| | (C) d There is would (A) 12 | oresentation lata link is an Etherno be the valid of 72.16.112.0 | et port subnet | on the route | (D) er wer his hor (B) | appi re ass st ? | ication igned an IP a 6.96.0 | | | |
| 7 0. | (C) d | oresentation lata link is an Etherno be the valid | et port | on the route | (D) er wei | appi re ass st ? | ication igned an IP a | | | |
| 7 0. | (C) d | oresentation lata link is an Ethern | et port | on the rout | (D) | appi | ication | | | |
| | (C) d | oresentation lata link | | | (D) | арр | ication | | | |
| | DE 6 C | oresentation | | | 0.75 | | | | | |
| | (A) r | | | | (B) | netv | vork | | | |
| 69. | The _ | Let V | er uses | The same of the sa | | | | | | a removement the second |
| | | | | data compre | ession | tored | uce the numb | per of bits | to be trans | mitted |
| | (A) | 100 kHz | (B | 150 kHz | | (C) | 250 kHz | (P) | 400 kHz | |
| | | | | W Cal | | | | | | |
| | | | | | | | | | | |
| | | | | | | = | 2, | | | |
| | | | | | fg 2 | 2(| ((t) (00 +160) 2×200 | ,) | | 1.5% |
| | | | 1×13 | w) | × | (41-) | (0 TW) |) | | |
| 00. | Deter | mine rej qui | | oling rate for : | $x^2(t)$. | | (1) | (| | = 5'4× |
| 68. | Relov | v figure sho | ws Fou | rier spectra | of sign | nal x | t). The bands | width of a | (t) is giv | en as 100 |
| | | 2.967 | , | 3) 0.667 | | (C) | 1.387 5 | 20 (D) | - | S or |
| | $Y = \epsilon$ | $e^{-\frac{X}{5}}$ is formed | d. The v | A TOTAL CONTRACTOR OF THE PARTY | is: | | | - Um | 2 | C-XI2 |
| | | andom variai | ole X is | uniformly d | istribu | ted or | the interval | (-5, 15). | Another r | indom v- |
| 67. | A Ra | | | | | | | | | |
| 67. | (C) | | unon | | (1) | No | ne of the men | | | |
| 67. | A Ra | Radius of c | | ence/ | (B) (D) | Ka | dius of diverg | rence | | |

| | In File Transfer Protocol, | | (B) | block | mode | | | | |
|----------|---|---|------------------------------|---|--|-------------------------------------|-------------------------------------|-----------------------|---|
| | (A) stream mode | | (D) | | | | | | |
| | (C) compressed mode | | | - and | ge mode | | | | and and a |
| | A pulse radar is opera | ting at 10 GI | Iz free | quency tect a ta | has an anten | na with section 1 | a gain 2 m², an | of 2 d the | 8dB and a minimum |
| | detectable signal is (A) 8114 m | B) 2348 m | | (0) | 1256 m | (D) | 4563 m | | |
| | A solenoid has 4000 tur field, when a current of | ns over it wil 2 A flows in th | h indu | ictance o | of 0.126 H. Th | e energy | stored | in th | = 2525 |
| | (A) 0.252 J_ | B) 9000) | | (C) | 0.504) | | | | |
| | | hu a choi | nner di | | 1 malt: | age is 22 | 0 V and | the o | luty cycle is |
| | A DC series motor is dr | iven by a cito | ed to s | reuit Th | ie supply volta | | | | |
| | (A) 55 V | (B) 165 V | | (0) | 110 V | (D) | 220 V | | |
| | | | | EW | | diago | at satell | ite in | terference is |
| 3. | The orbital spacing is | for | the hi | gh-pow | er satellites, se | o adjacei | it saten | | |
| ,. | considered nonexistent. | (B) 9° | | (C) | | (D) | 36° | | |
| ₹. | For an AM signal, the | bandwidth | for this | cHz and | the highest | trequen | y com | 2 | Bro = 10 |
| 9. | For an AM signal, the 705 kHz. The carrier free (A) 695 kHz | (B) 700 kH | z | (C) | 705 kHz | (D) | 710 k | Hz | e - h = 3 |
| | (A) 695 kHz Consider a machine w per branch instruction and | (B) 700 kHz ith 10 ns clock , 6 clock cycle 40% memory | k and | (C) | 705 kHz 4 clock cycle pruction. There | (D) | 710 k | Hz tion. | fet fm = 3 5 clock cycle to |
| | 705 kHz. The carrier free (A) 695 kHz Consider a machine w per branch instruction and branch instruction and What is throughput of | (B) 700 kHz ith 10 ns clock 6 clock cycle 40% memory pipeline system | k and instru | (C) it takes ory instruction. verhead | 705 kHz 4 clock cycle pruction. There is 2ns? | (D) per ALU exists 4 | 710 k instruc 0% ALU | Hz tion, J ins | fet fm = 3 5 clock cycle to |
| 0. | 705 kHz. The carrier free (A) 695 kHz Consider a machine w per branch instruction branch instruction and What is throughput of (A) 83 MIPS | (B) 700 kHz ith 10 ns clock , 6 clock cycle 40% memory | k and instru | (C) | 705 kHz 4 clock cycle pruction. There | (D) | 710 k instruc 0% ALU | Hz tion, J ins | fet fm = 3 5 clock cycle to |
| 0. | Consider a machine we per branch instruction and What is throughput of (A) 83 MIPS 7, 9, 13, 21, 37, ? (A) 58 | (B) 700 kHz ith 10 ns clock 6 clock cycle 40% memory pipeline syste (B) 84 MII 32 (B) 63 | k and instruction if or | (C) it takes only instruction. verhead (C) | 705 kHz 4 clock cycle pruction. There is 2ns? 85 MIPS | (D) per ALU exists 4 | 710 ki instruc 0% ALU 86 M | Hz tion, J insi | Fethm = 7 5 clock cycle for truction, 20% |
|). 1. | Consider a machine we per branch instruction and What is throughput of (A) 83 MIPS 7, 9, 13, 21, 37, ? (A) 58 If 'VEHEMENT' is we | (B) 700 kHz ith 10 ns clock 6 clock cycle 40% memory pipeline syste (B) 84 MII 32 (B) 63 | k and instruction if or | (C) it takes only instruction. verhead (C) | 705 kHz 4 clock cycle pruction. There is 2ns? 85 MIPS | (D) per ALU exists 4 | 710 ki instruc 0% ALU 86 N | Hz tion, J insi | fr fm = 7 5 clock cycle for truction, 20% |
| 0. | Consider a machine we per branch instruction and What is throughput of (A) 83 MIPS 7, 9, 13, 21, 37,? (A) 58 If 'VEHEMENT' is we language? (A) MOUNULER | (B) 700 kHz ith 10 ns clock 6 clock cycle 40% memory pipeline syste (B) 84 MII 32 (B) 63 written as 'VE | k and e mem instruem if o | (C) it takes only instruction. verhead (C) (C) | 705 kHz 4 clock cycle pruction. There is 2ns? 85 MIPS 69 en how 'MOU | (D) per ALU exists 4 (D) (D) | 710 ki instruction (10 ki) 86 M | tion, J inst | Fethm = 75 clock cycle for truction, 20% |
| 0. | Consider a machine we per branch instruction and What is throughput of (A) 83 MIPS 7, 9, 13, 21, 37,? (A) 58 If 'VEHEMENT' is we language? (A) MOUNULER | (B) 700 kHz ith 10 ns clock 6 clock cycle 40% memory pipeline syste (B) 84 MII 32 (B) 63 ritten as 'VE (B) OURM | k and e mem instruem if ores | (C) it takes only instruction. verhead (C) (C) (C) | 705 kHz 4 clock cycle pruction. There is 2ns? 85 MIPS 69 en how 'MOU MOURLUF n how can 'PS | (D) per ALU exists 4 (D) (D) IRNFUL | 710 kinstruction of ALU 86 M | tion, J insi | Fethm = 7 5 clock cycle for truction, 20% |
| 9. | Consider a machine w per branch instruction and What is throughput of (A) 83 MIPS 7, 9, 13, 21, 37,? (A) 58 If 'VEHEMENT' is w language? | (B) 700 kHz ith 10 ns clock 6 clock cycle 40% memory pipeline syste (B) 84 MII 32 (B) 63 written as 'VE | k and e mem instruem if ores | (C) it takes only instruction. verhead (C) (C) (C) | 705 kHz 4 clock cycle pruction. There is 2ns? 85 MIPS 69 en how 'MOU MOURLUF n how can 'PS | (D) per ALU exists 4 (D) (D) IRNFUL | 710 kinstruction of ALU 86 M | tion, J insi | Fethm = 7 5 clock cycle for truction, 20% |

| | | | | | | | - | | |
|-----------|---------|--|----------|---------------|-----------|-----------------|------------------------|------------------|-------------|
| | (A) | Water : Tap | (B) E | ar : Face/ | (0) | Power : Batte | ry (D) Em | Or 1 Onties | |
| 85. | Bus : [| Driver then: | | | | | | "SOIOU | |
| | | Machine : Opera | tor | (1 | B) 14: | | | | |
| | | Class: Student | | | B) War | : Soldier | 7 | 81 46 | |
| | | 9-3 | | , | Cool | : Kitchen | 6/62 | 81887 | 80 |
| \$6. | | | | | | | | 43 18 11 | 100 |
| | (A) | 2:81:73 53 | (B) 7 | 72 | | | | - 3 | 100 |
| | | | | | (C) | | (D) 63 | | |
| 37. | In th | e following ques | tion * s | tands for an | W of . | | | | 88 |
| | giver | e following ques n as choices und n substituted mal 4 • 5 • 4 | er each | guestion. Se | elect at | nathematical | signs at differ | rent places with | 10 |
| | when | n substituted mal | kes the | question as a | Correct | choice with the | ne correct seq | uence of signs | han |
| | 24 • | 4 * 5 * 4 | | | · · · · · | quation. | | 0.12 | vhich |
| | (A) | × + = | (B) | = x + ~ | 100 | | | | |
| | | | | | | + × = | | =++ | 128 |
| 8. | If '+ | means 'minu $5 \div 3 - 2 + 3$ | ıs' '-' | means 'my | dtinle | | | | - 3 |
| | 10 × | $5 \div 3 - 2 + 3$ | =? | nems me | adply, | ÷ means 'p | olus' and ' \times ' | means 'divide | lump. |
| | (A) | 21 | (B) | 33 | | | | Bon | was Then |
| | | | 238 | | (9) | | (D) | 52 | |
|). | 149: | 238:: 159:? | -iug | 6 | | 10 | ÷5+3× | 2 - 3 | |
| | | | 1.9 | 13 | | | 10 + (6) | -3 | -03 |
| 03 | (A) | 169 | (P) | 240 | | | 2 16 5-3 | 20 | 330 |
| L | | | (B) | 248 | (C | 261 | (D) | 268 | 338 |
|). | MH | ~ 9 2 . 3 | 17 | (8 P) | | | | | 200 |
| | (A) | Z NIW OKT, | PNQ, | | | | | minum Au | |
| | (11) | QQN | (B) | QRM | (C |) QRN | (D) | RRN | 973 |
| \:- | | | | | | | | -3449-3414 | |
|)ITE | ection | for questions 9 o form a group. | 91 - 93) | : In the foll | owing, th | ree alternati | VPS 370 Same | | 1310 |
| ur | | | . Find t | he odd wor | d that do | es not belone | to the grow | e in a certain w | ay out o |
| 1. | (A) | eulogies | (B) | extol | (C | | 22.00 | | |
| | | | | | , ,- | , can | (D) | ignominious | |
| 2. | (A) | Rubber | (B) | Cinchona | | | | | |
| | | | ,-, | -menoria | ((| Cardam | om (D) | Chalk | |
| 3. | (A) | Hydrometer | (P) | D! | | | | | |
| 3. | | 7 | (B) | Diameter | ((| C) Baromet | o= /Di | TTOOMS | |
| 01/ | C | | | | | -/ Daronici | er (D) | Hygrometer | |

| (Direction for questions 9 | 4 - 96) : In each of m. | 14 | our pairs of words are given, |
|-----------------------------|-------------------------|-----------------------------|--|
| out of which the words if | four pairs bear a co | fallowing questions. | our pairs of words are given, hip. Choose the pair in which |
| the words are differently t | elated. | tain common relations | hip. Choose the pair in which |
| 94. (A) Stale : Fresh | (B) Truth: Lie | | |
| , resi | | (Teach : Learn | (D) Slow: Sluggish |
| 95. (A) Iron - A | (D) Table to | | (b) Sion : Staggisti |
| 95. (A) Iron: Axe | (B) Table: Wood | m | |
| | | Jewelry : Gold | (D) Shirt : Fabric |
| 96. (A) Shovel: Mud | O | 3) | |
| (C) Hammer: Na | | Will Welvinson C. | |
| | 7 | Pen Donall | |
| (Direction for questions | | | ins three elements. These three |
| elements may or many | at have some lint | questions below | ins three elements. These three ements may fit into one of the ements in each of the questions |
| diagrams at (a) (b) | and (d) You have | e. Each group of the | ins three elements. These three |
| which fit into which -(1) | and (u). You have h | o indicate groups of the el | ements may fit into one of the |
| Author of t | ue diagrante graen pe | low. The letter indication | ements may fit into one of the ements in each of the questions of the diagram is the answer. |
| (a) (O) | (b) (o) | | ements may fit into one of the ements in each of the questions og the diagram is the answer. |
| | | (0) | / \ ^ |
| | | 0 | (d) (b) |
| 97. Anxiety, Intelligen | see Strangth : | | |
| (A) (a) | | | |
| (·-) (a) | (B) (b) | (C) (c) | |
| 00 | | (4) | (D) (d) |
| 98. Vegetables, Potato | o, Cabbage : | | |
| (A) (a) | (B) (b) | | THE PARTY OF THE PROPERTY OF THE PARTY OF TH |
| | | (C) (c) | (D) (d) |
| 99. Week, Day, Year | | | (-) (6) |
| | | | |
| (A) (a) | (B) (b) | (O) (c) | |
| 20 | | | (D) (d) |
| 100. Given below is | a related pair of fice | | |
| numbered as 1, | 2. 3. and 4. Out of the | ires (unnumbered) follo | wed by four other main of C |
| that in the un-r | numbered pair The | e tour pairs, select the p | wed by four other pairs of figures pair that has a relationship similar to |
| choices. | tombered pair. The b | est answer is to be sele | ected from a mount of the territory |
| | | 11-15-12-13 | pair that has a relationship similar to ected from a group of slightly close |
| | | VIATAL I | THE LOCAL PROPERTY OF THE PARTY |
| 1 1 1 | 117:00 | | THE PERSON NAMED IN COLUMN 2 AND |
| | | 1 1 11 11 | |
| 444 | 1 2 | 3 4 | |
| (A) 1 | (B) 2 | 100 | |
| | | (2) 3 | (D) 4 |
| | | | |
| | | -000- | |
| | | | |

P.T.O

E01/C