## BSNL GE-JTO Recruitment Examination

Test Paper - VIII

1. When a inductive coil connected to a $200 \mathrm{~V}, 50 \mathrm{~Hz}$ ac supply with 10 A current flowing through it dissipates 1000 watts then which of the following will have least value in ohms-a.) Resistance b.)
Reactance c.) Impedance d.) None
2 Oscillator crystal are made of - a.) Silicon b.) Germanium c.) Quartz d.) None
2. For small size, high frequency coils, the most common core material isa.
)Air
b. )Ferritec.) Powdered ion d.) Steel
3. 4. If we have a parallel plate capacitor of plate area ' A ' and plate separatoin $t$ and having a capacity C and a metallic plate r of area A and of negligible thickness is introduced in the capacitor at a distance from either of the two plates as shown in the given figure then the capacity of the capacitor will become - a.) b.) C c.)2 C d .) 4 C
1. 5. A superconductor is $\mathrm{a}-\mathrm{a}$.)A material showing perfect conductivity and Meissner effect below a critical temperature b.)A conductor having zero resistance c .)A perfect conductor with highest di-magnetic susceptibility d.)A perfect conductor which becomes resistance when the current density through it exceeds a critical value
_.6. When an inductor tunes at 200 KHz with 624 pF capacitor and at 600 KHz with 60.4
_ . pF capacitor then the self capacitance of the inductor would be -a$) 8.05 \mathrm{pF}$ b) 10.05 pF c.) 16.01 pF
d.) 20.01 pF
1. 7. Sparking occur when a load is switched off because the circuit has high -
a.)Inductance
b.)Capacitance
c.)Resistance
d.)None
1. 8. Sparking between contacts can be reduced by inserting a-
a.) Resistance in the line
b.)Capacitor in series with contacts
c.)Capacitor in parallel with contacts
d.)None
1. 9. RF amplifier of an A.M. receiver is normally biased in -
a.) Class 'A'
b.)Class 'b'
c.)Class 'C'
d.)None
1. 10. The value of gate voltage for the operation of enhancement of only N channel MOSFET has to be -
a.)High positive
b.)High negative
c.)Low positive
d.)Zero
1. 11. The input gate current of a FET is -
a.)a few microamperes
b.)negligibly small
c.) a few milliamperes
d.)a few amperes
1. 12. In the following fig. with $\mathrm{R}=30 \mathrm{k}$, the value of current through 2 K resistor is -
a.) 25 mA
b. $) 40 \mathrm{~mA}$
c.) $25 / 16 \mathrm{~mA}$
d.) 10 mA
_ .13. A step recovery diode -
a.) has on extremely short recovery time
b.)conducts equally well in both directions
_ .c.)is mainly used as a harmonic generator d .)is an ideal rectifiers of high frequency signals
1. 14. In order to get maximum undistorted output signal from CE amplifier with VCC 10 V , the value of VCE (Q) should be approximately-a.) 0.1 V b. $) 5 \mathrm{~V}$ c. $) 10 \mathrm{~V}$ d) V
1. 15. In a FET the electrode, which corresponds to collector in bipolar transistor, is -a .) source b.)drain c.)gate d.)none
1. 16. The device which acts like an NPN and a PNP transistor connected base to base and emitter to collector is - a.)Triac b.)UJT c.)Diac d.)SCR
1. 17. A typical optical fibre has - a.)High refractive index core and low refractive index cladding b .)Low refractive index core and high refractive index cladding c.)Both a and b d.)None 13. 18. In the following figure circuit diagram of an op-amp based is shown. The ratio is equal to - a.) 9 b.) 11 c.) 10 d.) 21
1. 19. When a loud speaker is connected across the terminals $A$ and $B$ of the network shown in the fig. then its impedance to obtain maximum power dissipation in it will be -a .) $3-\mathrm{j} 1 \mathrm{~b}.) 3+\mathrm{j} 9$ c.) $7.5+\mathrm{j} 2.5 \mathrm{~d}.) 7.5-\mathrm{j} 2.5$ BSNL Recruitment Exam Question Paper with sample aptitude / reasoning / technical questions free download here. Answers key / solutions coming shortly! _ .20. In the lattice network, the value of R for the maximum power transfer to the load -a.$) 5$ _ .b.) 6.5 c.) 8 d .) 9
1. 21. For a lossy transmission line short circuited at the receiving end, the input impedance is given by ( Z 0 is the characteristic impedance, $\ddot{O}$ is the propagation constant and 1 is the length of the line-a.) Z0 cot h Öl b.) Z0 cot Öl c.) Z0 tan h.Ö 1 d.) Z0 tan Öl
1. 22. The approximate thickness of the radome wall should be -a.)l b.) $1 / 4 \mathrm{c}.) 1 / 2 \mathrm{~d}.) 1 / 23 \mathrm{~A}$ relatively permanent information is stored in
a. )ROMb.)RAM c.)PROM d.)Volatile memory
1. 24. The rise time of the $R C$ network shown in the given figure is approximately equal to -b .) RC c.) 2RC d.) 4RC
1. 25 . If in the network shown in the fig. initially a steady state is attained by closing the switch 's' and then if the switch is opened at $t=0$, then the current $i(t)$ through the inductor will be -a .) $\cos 50 t \mathrm{~A}$ b.) 2 A c.) $2 \cos 100 \mathrm{tA}$ d.) $2 \sin 50 \mathrm{tA}$
2. 26. When the p network of figure - I and T-network of figure - II are equivalent then the values of R1, R2 and R3 will be respectively - a) $9 \mathrm{~W}, 6 \mathrm{~W}$ and 6 W b.) $6 \mathrm{~W}, 6 \mathrm{~W}$ and 9 W c.) $9 \mathrm{~W}, 6 \mathrm{~W}$ and 9 W d.) $6 \mathrm{~W}, 9 \mathrm{~W}$ and 6 W
1. When the impedance matrices of a two port networks are given by and, then if these two networks are connected in series then the impedance matrix of the resulting two-port network will be -
d.) indeterminate
2. 28. Joule/coulomb is the unit of a.) Electric field potential b.) Potential c .) Charge d.) None of the above
1. 29. The electric field line and equipotential lines-a.) Are parallel to each other b.)Are one and same c.) Cut each other orthogonally d.)Can be inclined to each other at any angle
1. 30. For a lossy transmission line short circuited at the receiving end, the input impedance is given by (When Z 0 is the characteristic impendence g is the propagation constant and L is the length of the line
1. 31. When two equal positive point charges are placed along X - axis at X 1 and -X 1
respectively then the electric field vector at a point P on the positive Y -axis will be directed-a.) In the $+x$ direction $b$.) In the $-x$ direction
c. ) In the $+y$ directiond.) In the $-y$ direction
1. 32. The directions of and in TEM mode transmission line with respect to the direction of propagation area.) Both and are transverse to the direction of propagation b.) is and are transverse and $h$ has a component in the direction of propagation $c$.) is entirely transverse and has a component in the direction of propagation d.) is entirely transverse and has a component in the direction of propagation
1. 33. The lowest TM mode in a rectangular waveguide of cross - section $\mathrm{a} x \mathrm{~b}$ with $\mathrm{a}>\mathrm{b}$ will bea.) TM01 b.)TE10 c.) TM112 d.)TE11
1. 34. When a transmitter in a free space radiates a mean power of ' $p$ ' watts uniformly in all directions then at a distance d sufficiently far from the source in plane the electric field E should be related to p and d as -
1. 35 . When a dipole antenna was radiating with some excitation in free space radiating a certain amount of the power $v$ if then this antenna is immersed in a lake where water is non-dissipative but has a dielectric constant of 81 , then the radiated power with the same excitation will be
a.) Decrease to finite non-zero value
b.) Remain the same
c. )Increased.)Decrease to zero
2. When a $(75-\mathrm{j} 40) \mathrm{W}$ load is connected to a coaxial line of $\mathrm{Z} 0=75 \mathrm{~W}$ at 6 MHz then the load matching on the line can be accomplished by connectinga.)
A short - circuited stub at the load
b.)An inductance at the load
c. )A short circuited stub at a specific distance from the loadd.)none of
the above
1.37. As compared to analog multimeters, digital multimeters are -
a.) less accurate
b.) more accurate
c.) equally accurate
d.) none.
3. 38. When a signal of 10 mV at 75 MHz is to be measured then which of the following instruments can be used -
a.) VTVM
b.) Cathode ray oscilloscope
c.) Moving iron voltmeter
d.) Digital multimeter
1. 39. Which of the following statement is true about two wattmeter method for power measurement in three phase current ?
a.) power can be measured using two wattmeter method only for star connected three phase circuits.
b.) when two meter show indentical readings, in the power factor is 0.5 .
c.) when power factor is unit, one of the wattmeter reads zero
d.) when the reading of the two wattmeters are equal but of opposite sign, then the power factor is zero -
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1. When a capacitance transducer has two plates of area 5 cm 2 each, separated by an air gap of 2 mm than the displacement sensitivity in $\mathrm{pf} / \mathrm{cm}$ due to gap change would be -
a.) 11.1
b.) 44.2
c.) 52.3
d.) 66.3
2. 41. The Q of a radio coil -
a.) is independent of frequency
b.) increases monotonically as frequency increases
c.) decreases monotonically as frequency increases
d.) increases upto a certain frequency and then decreases beyond that frequency
1. 42. When a generator of internal impedance and operating at 1 GHz feeds a load via a coaxial line of characteristic impedance 50 ohm then the voltage wave ratio on the feed line is -
a.) 0.5
b.) 1.5
c.) 2.5
d.) 1.75
1. 43. The coding system typically used in digital telemetry is -
a.) PPM (pulse position modulation)
b.) PAM (pulse amplitude modulation)
c.) PCM (pulse code modulation)
d.) PDM (pulse duration modulation)
1. 44. Radiation pyrometers are used for the measurement of temperature in the range of -
a.) -2000 C to 5000 C
b.) 00 C to 5000 C
c.) 5000 C to 12000 C
d.) 12000 C to 25000 C
1. 45. In the given figure band structure is shown. It is of -
a.) Gallium Avesenide (GaAs)
b.) Silicon (Si)
c.) Copper ( Cu )
d.) Germanium (Ge)
1. 46. When anode is positive with respect to cathode in an SCR, the numbers of blocked pn junction is -
a.) 1
b.) 2
c.) 3
d.) 4
1. 47. The circuit symbol for a GTO is
_ .a. b.
_ .c. d.
1.48. In the given fig. mark out the type of Cyclo convertersa.) 1 phase to 1 phase with continuous conduction b.) 1 phase to 1 phase with discontinuous conduction c.) step up device d.) 3 phase to 1 phase device
1. 49. In the given fig. A-1, $\mathrm{C}=5, \mathrm{~m} \mathrm{H}$ and $\mathrm{C}=20 \mathrm{~m} \mathrm{~F}, \mathrm{C}$ is initially charged to 200 V . After the switch. $S$ is closed at $t=0$ the maximum value of current and the time at which it reaches this value are respectively. a.) $400 \mathrm{~A}, 15.707 \mathrm{mS}$ b.) $50 \mathrm{~A}, 30 \mathrm{mS}$ c.) $100 \mathrm{~A}, 62.828 \mathrm{mS}$ d.) $400 \mathrm{~A}, 31.414 \mathrm{mS}$
1. 50 . In the given circuit the maximum current in the main SCR M can bea.) 200 A b.) 170.7 A c.) 141.4 A d.) 70.7 A
_ .51. The transfer function of an amplifier is given byThe high 3-db frequency of the amplifier will approximately
.a.) 5850 KHZ b.) 585 KHZ c.) 5850 HZ d.) 585 HZ
2. 52. In comparison to full wave rectifier with two diodes the four divide bridge rectifier has the dominant advantage of a). Higher current carrying b.)Lower ripple factor c.) Higher efficiency d.)Lower peak increase voltage require
1. 53 . Power output increase in a class-c amplifier-a.) If the conduction angle decrease b).If the conduction angle increase $c$.) Are not governed by the conduction angle d.)None of the above .54. A transistor with hie $=1.5 \mathrm{k}$ and $\mathrm{hfe}=75$ is used in an emitter follower circuit where R1 and R2 are used for normal biasing. Approximate value of it's current amplification is _ .a.) 75 b.) 76 c.) $75 / 76$ d.)-75
2. 55 . Amplifier of class B has high theoretical efficiency of 78.5 percent becausea.)

It is biased almost to saturation
b.)Its quiescent current is low
c.)It's output is an exact replica of it's input
d.)It is biased well below cut off
7. 56. The coupling that produces minimum interference with frequency response isa.)

Direct coupling
b.)Impedance coupling
c.) R C coupling
d.) Transformer coupling
8. 57. In the circuit shown in the given figure Rf providesa.) Current series feedback
b.)Current shunt feedback
c.) Voltage series feedback
d.) Voltage shunt feedback
9. 58. Mark the correct relation for the junction transistor
10. 59. Data in the serial form can be converted into parallel form by using -
a.) PISO shift register
b.) SOIP shift register
c.) SIPO shift register
d.) POIS shift register
11. 60. PROMs are used to storea.)
bulk information
b.) information to be accessed rarely
c.) sequence information
d.) relatively permanent information
12. 61. The horizontal axis in a 3 bit unipolar $\mathrm{D} / \mathrm{A}$ converter representsa.)

Output bit combination
b.) analog output voltage
c.) input bit combination
d.) none of the above
_ .62. 'Not allowed' condition in NAND gate SR flip flop is -
a.) $s=0, R=0$
b.) $\mathrm{s}=1, \mathrm{R}=1$
_.c.) $\mathrm{s}=0, \mathrm{R}=1 \mathrm{~d}$.) $\mathrm{s}=1, \mathrm{R}=0$
13. 63. Name the fastest logic familya)

TTL
b. RTLc.) DCTL
d.) ECL

1. 64. Equation corresponding to De Morgan's theorem in Boolean Algebra is -
a.) $(\mathrm{A}+\mathrm{B})(\mathrm{A}+\mathrm{B})=\mathrm{AA}+\mathrm{AB}+\mathrm{BA}+\mathrm{BB}$
c.) $A+A B=A$
d.) None of the above
1. 65 . In the given fig find radix of the system -
a.) 2 b .) 4
c.) 6
d.) 8
2. 66. Modems are used for data transmission telephone lines to -
a.) increase the transmission capacity
b) improve noice performance
c.) incorporate error control coding
d.) eliminate dc component in the transmitted signal
1. 67. The figure of a control system is shown. The maximum value of gain K for which the system is stable isa.)
b.) 3
c.) 4
d.) 5
1. 68. Identify the example of open-loop systema.)

A windscreen wiper
b.) Aqualung
c.) Respiratory system of an animal
d.) A system for controlling Anti-rocket missiles.
6. 69. Consider the following expressions indicating the step or impulse response of an
initially relaxed control system

1. 2. $(5-4 \mathrm{e}-2+) \mathrm{u}(\mathrm{t})$
1. 2. $(\mathrm{e}-2 \mathrm{t}+5)(\mathrm{u}(\mathrm{t}))$
$3 . V(t)+8 e-2 t u(t)$
1. $\mathrm{V}(\mathrm{t})+4 \mathrm{e}-2 \mathrm{t} 4(\mathrm{t})$

Those which correspond to the step and impulse response of the same system includea.)
1\&3
b.) $1 \& 4$ c.) $2 \& 4$ d.) $1 \& 4$ BSNL GE JTO Recruitment / placement last exam paper previous years 200720082009 free sample papers here.

1. 70. A system is described byTo test its stability by Lyapunov's method the following V functions are considered. Mark the most suitable V-function in this case-a.) Only V1 b.)Only V2 c.) Both V1 and V2 d.) Neither V1 nor v2
1. 71. Identity the polar plot of a typical type zero system with open loop transfer function
1. 72. The scattering matrix of a magic -tee shown in the given figure is
1. 73. Which is the following relate to rational transfer function of a system
1. 2. Ratio of Fourier transform of output to input with zero initial conditions.
1. 2. Ratio of Laplace transform of output to input with zero initial conditions.
1. 3. Laplace transform of system impulse response.
1. 4. Laplace transform of system unit step response select the correct answer using the codes given below. Codes a.) 1 and 4 b.) 2 and 3 c.) 1 and 3 d.) 2 and 4
1. 74. For the signal $g(t)-10 \cos (50 \mathrm{pt}) \cos 2(150 \mathrm{at})$ The Nyquist sampling state in t seconds is a.) 150 samples per second b.) 200 samples per second c.) 300 samples per second d.) 350 samples
per second
1. 75 . In the case of a 70 MHz 1 F carries for a transponder band width of 36 MHz ; energy must lie between - MHz. a.) 34 and 106 b.) 52. And 88 c.) 106 and 142 d.) 34 and 142
2. Radar used to eliminate clutter in navigational application is -
a.) Pulse radar b.) Tracking radar c.) MTI radar d.) Mono pulse radar
3. 77. The 1.55 mm windows is not yet in use with fiber optic systems because -
a.) The attenuation is higher than at 0.85 mm
b) The attenuation is higher than at 1.3 mm
c.) Suitable laser devices have not yet been developed
d.) It does not lend itself to wavelength multiplexing
1. 78. Pre-emphasis in FM systems involvesa.)

Compression of the modulating signal
b.) Expansion of the modulating signal
c.) Amplification of lower frequency components of the modulating signal.
d.) Amplification of higher frequency components of the modulating signal.
9. 79. In a terrestrial microwave system transmission of signals is achieved througha.)
reflection from the ionosphere
b.) line of sight mode
c) reflection from the ground
d.) diffraction from the stratosphere.
10. 80. Casse grain feed is used with a parabolic reflector to
a.) increase the gain of the system
b). increase the bandwidth of the system
c.) reduce the size of the main reflector
d.) allow the feed to be placed at a convenient point.
11. 81. In most microwave communication link rain drop attenuation is caused due toa.)
scattering of microwaves by water drops of specific size.
b) scattering of microwaves by a collection of droplets acing as a single body.
c.) absorption of microwaves by water and consequent heating of the liquid
d.) absorption of the microwaves by water vapor in the atmosphere.
12. 82. Circuit in the given figure represents. -
a.) an astable multivibrator
b.) A monostable multivibrator
c.) Voltage controlled oscillator
d.) Ramp generator
13. 83. . $\mathrm{D}=\mathrm{r}$ isa.)

Maxwell's 1st equation
b.) Maxwell's II equation
c.) Maxwell's III equation
d.) Maxwell's IV equation
14. 84. In a rectangular wave-guide which TM mode existsa.)

TM00
b.) TM01
c.) Tm 10
d.) TM11
15. 85. In directional coupler a portion of power two velliry fram port 1) to port 2 ) is coupled to.
a). port 4
b). port 3
c. port 2.d.) port $3 \& 4$.

1. 86 . For high power i.e. 10 w to 50 kw measurement -
a.) Barometer are used
b.) Thermisters are used
c.) Calorimetric technique
d.) Calorimetric watt meter technique used
2. 87. The difference between TWT \& klystron is -
a.) In TWT electrons are in contact with RF field for long time \& in klystron for short time
b.) In klystron electrons are in contact with RF field for long time \& in TWT for short time
c.) In klystron there is no contact in RF field \& electrons while in TWT there is contact
d.) In TWT phase is no contact is RF field \& electrons while in klystron there is contact
1. 88. Which one is most suitable for transmission through wave guidea.)

Hown antennas
b.) Bioconical antennas
c.) helical antenna
d. Discone

1. 89. The skip distance of microwave is given by -
a.)
b.)
c.)
d.)
1. 90 . How many general purpose registers 8085 mpa .) 4
b.) 6
c.) 8
c.) 10
2. 8085 mP has no. of addressing modes
a.) 2 b.) 3 c.) 4 d.) 5
3. 92 . What will be status of z and $\mathrm{c} y$ flag after execution of SUB A instruction
a.) $\mathrm{z}=0, \mathrm{cy}=0$
b.) $\mathrm{z}=0, \mathrm{cy}=1$
c.) $\mathrm{z}=1, \mathrm{cy}=0$
d.) $\mathrm{z}=1, \mathrm{cy}=1$
4. 93. Microprocessor accept interrupt only if.a.) interrupt flip flop disabled.
b.) when INTA signal is low.
c. interrupt flip flop enabled.d.) none of above.
1. 94 . Microprogramming is a techniquea.) for programming the microprocessor
b.) for writing small programs efficiently
c.) for programming the control steps of computer
d.) for programming o/p $\mathrm{i} / \mathrm{p}$
2. 95 . High level programs like C are converted into machine language with the help of
a.) interpreter
b.) compiler
c.) operating
d.) system
3. $96 .(10110011) 2=(?) 8$ a. $) 253$
b.) 263
c.) 273
d.) 283
4. 97. A Not gate at the output of AND gate converts AND gate intoa.)

NAND
b.) NOR
c.) AND
d.) NOPE.
5. 98. The $\mathrm{O} / \mathrm{P}$ of a logic gate is the gate must bea.) AND
b.) OR
c.) NAND
d.) $\mathrm{X}-\mathrm{OR}$
6. 99. 38. A symbol of JK flip flop is-BSNL Free download previous years 200720082009 recruitment question papers for GE JTO exam sample papers. Answer keys / solutions coming soon! 100. A demultiplenera.) has multiple $\mathrm{i} / \mathrm{p}$ and single $\mathrm{o} / \mathrm{p} \mathrm{b}$.) has multiple $\mathrm{i} / \mathrm{p}$ and multiple $\mathrm{o} / \mathrm{p} \mathrm{c}$.) has multiple $\mathrm{i} / \mathrm{p}$ and multiple $\mathrm{o} / \mathrm{p}$ d.) has single $\mathrm{i} / \mathrm{p}$ and single $\mathrm{o} / \mathrm{p}$
101. Which of the following best describes the authour`s attitude toward fairy tales ?
a.) fascination
b.) open approval.
c.) Indulgent tolerance.
d.) Scornful.
102. What type of sentence is this ?

Hurray! We won the match
a.) Exclamatory
b.) assertive
c.) Negative
d.) Affirmative
103. Before which of the following word will you put 'a'
a.) hour
b.) M. A.
c.) Umbrella
d.) Man
104. The noun form of 'fresh' is -
a.) freshly
b.) freshen
c.) fresheners
d.) fresh itself
105. The word 'clang' is an example of -
a.) Simile
b.) inversion
c.) onomatopoeia
d.) irony
106. The Forbes magazine acclaimed Azim Premji as richest India's is the chairman ofa.)

Pentafour software
b) Infosys
c.) IBM
d.) Wipro
107. Bharat Ratna award for the year 2001 goes to-a.) Lata Mangeshkar and Zakeer Hussain b.)

Zakeer Hussain and Bismillah Khan c.) Bismillah Khan and Lata Mangeshkar d.) Lata Mangeshkar and Ustad Amzad Ali Khan
108. Mr. George W-Bush takes over as ------ President of the united states of America succeeding Mr. Bill Clinton-a.) 42nd b.) 43rd c.) 40th d.) 45th
109. New Chief Minister of Pondicherry is-a.) T. Venkat Naidu b.) K. Hari Harh c.) N. Rengaswany d.) M. Mudliar
110. No court has the jurisdiction to interfere with the election process once set in motion by the Election commission. This is enshrined in Article-a.) 311 b.) 329 c.) 356 d.) 365
111. Ostrich is aa.) Running bird b.) Flying bird c) Swimming bird d.) Migratory bird
112. The main atmospheric gas responsible for green house is-a.) Oxygen b.) Nitrogen c.) Ozone d.) Carbon-dioxide
113. Which of the following is not a Kharif Crop-a.) Rice b.) groundnut c.) Sugarcane d.) gram 114. The function of World Bank is to-a.) Help in reconstruction and development of world economy b.) Facilitate poor countries to trade on concessional rates c.) Promote growth of international trade and equilibrium in balance of payments d.) Ease trade barriers and establish rule of fair trade 115. Speed of sound is maximum in
a. )Waterb.) Air c.) Steel d.) Vacuum 116. "Long years ago we made a trust with destiny." Whose words are these-a.) Subhash Chandra Bose b.) Jawaharlal Nehru c.) Lajpat Rai d.) Bhagat Singh 117. Durand cup is associated with-a.) Hockey b.) Tennis c.) Football d.) Badminton 118. Rabindranath Tagore was awarded the Nobel Prize in literature in the year. a.) 1908 b.) 1910 c.) 1913 d.) 1914
119. India successfully conducted its first underground nuclear experiment at Pokhran in Rajas than on-a.) May 18, 1975 b.) May 20, 1974 c) May 17, 1974 d.) May 17, 1974
120. An emergency loan of $\$ 500$ million to help reconstruct infrastructure in earth quake devastated Gujarat approved by-a.) Asian development Bank b.) World Bank c.) Swiss Bank d.) Reserve Bank of India BSNL GE-JTO Recruitment Examination

