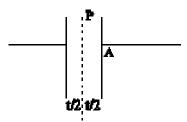
# **BHEL Model question paper(Answers Updated)**

- 1. For ELECTRICAL & ELECTRONICS with answers(bolded words)
- 2. When a inductive coil connected to a 200 V, 50Hz ac supply with 10A current flowing through it dissipates 1000 watts then which of the following will have least value in ohms
  - a.) Resistanceb.) Reactance
  - c.) Impedance
  - d.) None
- 3. Oscillator crystal are made of
  - a.) Silicon
  - b.) Germanium
  - c.) Quartz
  - d.) None
- 4. For small size, high frequency coils, the most common core material is-a. )Airb. )Ferrite
  - c.) Powdered ion
  - d.) Steel
- 5. 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  $\frac{c}{1-\alpha}$  from either of the two plates as shown in the given figure then the capacity of the capacitor will become –

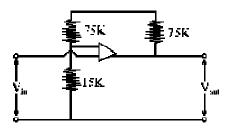


	b.) C
	c.) 2C
	d.) 4C
6.	A superconductor is a –
	a.) A material showing perfect conductivity and Meissner effect below a critical temperature
	b.) A conductor having zero resistance
	c.) A perfect conductor with highest di-magnetic susceptibility
	d.) A perfect conductor which becomes resistance when the current density through it exceeds a critical value
7.	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 pF
	b) 10.05pF
	c.) 16.01pF
	d.) 20.01pF
8.	Sparking occur when a load is switched off because the circuit has high –
	a.) Inductance
	b.) Capacitance
	c.) Resistance
	d.) None
9.	Sparking between contacts can be reduced by inserting a –
	a.) Resistance in the line
	b.) Capacitor in series with contacts

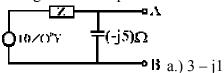
	c.) Capacitor in parallel with contacts
	d.) None
10.	RF amplifier of an A.M. receiver is normally biased in –
	a.) Class 'A'
	b.) Class 'b'
	c.) Class 'C'
	d.) None
11.	The value of gate voltage for the operation of enhancement of only N channel MOSFET has to be –
	a.) High positive
	b.) High negative
	c.) Low positive
	d.) Zero
12.	The input gate current of a FET is –
	a.) a few microamperes
	b.) negligibly small
	c.) a few milliamperes
	d.) a few amperes
13.	In the following fig. with $R = 30k$ , the value of current through 2 K resistor is –

	a.) 25 mA
	b.) 40 mA
	c.) 25/16 mA
	d.) 10 mA
14.	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
15.	In order to get maximum undistorted output signal from CE amplifier with $V_{\text{CC}}$ 10V, the value of $V_{\text{CE}}\left(Q\right)$ should be approximately-
	a.) 0.1V
	b.) 5V
	c.) 10V
	1) <b>V</b>
	d) V
16.	In a FET the electrode, which corresponds to collector in bipolar transistor, is –
	a.) source
	b.) drain
	c.) gate
	d.) none
17.	The device which acts like an NPN and a PNP transistor connected base to base and emitter to collector is –a.) Triacb.) UJT
	c.) Diac
	d.) SCR

- 18. 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
- 19. In the following figure circuit diagram of an op-amp based is shown. The ratio equal to –

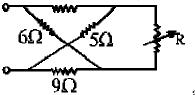


- a.) 9
- b.) 11
- c.) 10
- d.) 21
- 20. When a loud speaker is connected across the terminals A and B of the network shown in the fig. then its impedance to obtain maximum power dissipation in it will be –



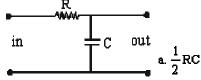
- b.) 3 + j9
- c.) 7.5 + j 2.5
- d.) 7.5 j 2.5

21. In the lattice network, the value of R for the maximum power transfer to the load –

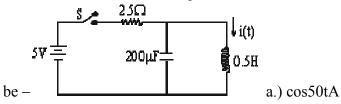


a.) 5

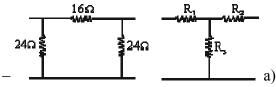
- b.) 6.5
- c.) 8
- d.) 9
- 22. For a lossy transmission line short circuited at the receiving end, the input impedance is given by ( $Z_0$  is the characteristic impedance,  $\sqrt{}$  is the propagation constant and l is the length of the line-a.)  $Z_0$  cot  $h\sqrt{l}$ b.)  $Z_0$  cot  $\sqrt{l}$ 
  - c.)  $\mathbb{Z}_0$  tan h. $\sqrt{1}$
  - d.)  $Z_0 \tan \sqrt{1}$
- 23. The approximate thickness of the radome wall should be -a.)  $\lambda b$ .)  $\lambda/4$ 
  - c.)  $\lambda/2$
  - d.)  $\lambda/8$
- 24. A relatively permanent information is stored in
  - a.) ROM
  - b.) RAM
  - c.) PROM
  - d.) Volatile memory
- 25. The rise time of the RC network shown in the given figure is approximately equal to –



- b.) RC
- c.) 2RC
- d.) 4RC
- 26. 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



- **b.) 2A**
- c.) 2cos100tA
- d.) 2sin50tA
- 27. When the  $\pi$  network of figure I and T-network of figure II are equivalent then the



values of  $R_1$ ,  $R_2$  and  $R_3$  will be respectively –  $9\Omega$ ,  $6\Omega$  and  $6\Omega$ 

- b.)  $6\Omega$ ,  $6\Omega$  and  $9\Omega$
- c.)  $9\Omega,\,6\Omega$  and  $9\Omega$
- d.)  $6\Omega$ ,  $9\Omega$  and  $6\Omega$
- 28. When the impedance matrices of a two port networks are given by  $\begin{bmatrix} 3 & 2 \\ 2 & 3 \end{bmatrix}$  and  $\begin{bmatrix} 13 & 3 \\ 5 & 25 \end{bmatrix}$ , then if these two networks are connected in series then the impedance matrix of the

resulting two-port network will be -  $\begin{bmatrix} 3 & 5 \\ 2 & 25 \end{bmatrix}$  b.  $\begin{bmatrix} 18 & 7 \\ 7 & 28 \end{bmatrix}$ 

d.) indeterminate

29.	Joule/coulomb is the unit of - a.) Electric field potential <b>b.) Potential</b>
	c .) Charge
	d.) None of the above
30.	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
31.	For a lossy transmission line short circuited at the receiving end, the input impedance is given by (When $Z_0$ is the characteristic impendence $\gamma$ is the propagation constant and L is the length of the line a. $Z_0$ cothyd b. $Z_0$ cotyd
	c . Z <sub>0</sub> tan hyé
32.	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 direction
	d.) In the –y direction
33.	The directions of $\overline{H}$ in TEM mode transmission line with respect to the direction of propagation are-
	a.) Both $\overline{E}$ and $\overline{H}$ are transverse to the direction of propagation
	b.) $\overline{E}$ is and $\overline{H}$ are transverse and h has a component in the direction of propagation
	c.) $\overline{H}$ is entirely transverse and $\overline{E}$ has a component in the direction of propagation

- d. ) $\overline{H}$  is entirely transverse and  $\overline{E}$  has a component in the direction of propagation
- 34. The lowest TM mode in a rectangular waveguide of cross –section a x b with a>b will be
  - a.) TM<sub>01</sub>
  - b.)TE<sub>10</sub>
  - c.) TM<sub>112</sub>
  - d.)TE<sub>11</sub>
- 35. 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 - a. E  $\alpha pd$  b. E  $\alpha \frac{p}{d}$ 

- c. E α. √pd
- $d \to \alpha \cdot \frac{\sqrt{p}}{d}$
- 36. 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.)Increase

#### d.)Decrease to zero

- 37. When a  $(75 j40)\Omega$  load is connected to a coaxial line of  $Z_0 = 75 \Omega$  at 6MHz then the load matching on the line can be accomplished by connecting
  - a.) A short circuited stub at the load

#### b.)An inductance at the load

c.) A short circuited stub at a specific distance from the load

- d.)none of the above
- 38. As compared to analog multimeters, digital multimeters are -a.) less accurateb.) more accurate
  - c.) equally accurate
  - d.) none.
- 39. When a signal of 10 mV at 75 MHz is to be measured then which of the following instruments can be used –a.) VTVMb.) Cathode ray oscilloscope
  - c.) Moving iron voltmeter
  - d.) Digital multimeter
- 40. 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 –
- 41. When a capacitance transducer has two plates of area 5cm<sup>2</sup> each, separated by an air gap of 2mm than the displacement sensitivity in pf/cm due to gap change would be −a.) 11.1b.) 44.2
  - c.) 52.3
  - d.) 66.3
- 42. The Q of a radio coil –a.) is independent of frequencyb.) increases monotonically as frequency increases
  - c.) decreases monotonically as frequency increases
  - d.) increases upto a certain frequency and then decreases beyond that frequency
- 43. When a generator of  $^{50\Omega}$  internal impedance and operating at 1GHz feeds a  $^{75\Omega}$  load via a coaxial line of characteristic impedance 50 ohm then the voltage wave ratio on the feed line is -a.) 0.5b.) 1.5
  - c.) 2.5

- d.) 1.75
- 44. 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)
- 45. Radiation pyrometers are used for the measurement of temperature in the range of
  - a.)  $-200^{0}$ C to  $500^{0}$ C
  - b.)  $0^{0}$ C to  $500^{0}$ C
  - c.)  $500^{0}$ C to  $1200^{0}$ C
  - d.) 1200°C to 2500°C
- 46. In the given figure band structure is shown. It is of –



- a.) Gallium Avesenide (GaAs)
- b.) Silicon (Si)
- c.) Copper (Cu)
- d.) Germanium (Ge)
- 47. When anode is positive with respect to cathode in an SCR, the numbers of blocked p-n junction is
  - a.) 1
  - b.) 2
  - c.) 3
  - d.) 4
- 48. The circuit symbol for a GTO is

a. **b.** 

c. d.

49. In the given fig. mark out the type of Cyclo converters

### a.) 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

In the given fig. A-1, C=5, m H and C=20 m F, 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 A, 15.707 mS

- 50. b.) 50 A, 30 mSc.) 100 A, 62.828 mSd.) 400 A, 31.414 mS
- 51. 50. In the given circuit the maximum current in the main SCR M can be-

- a.) 200 A
- b.) 170.7 A
- c.) 141.4 A
- d.) 70.7 A
- 52. The transfer function of an amplifier is given by high 3-db frequency of the amplifier will approximately

The

### a.) 5850 KHZ

- b.)585 KHZ
- c.) 5850 HZ
- d.)585HZ

53.	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
54.	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
55.	A transistor with $h_{ie}$ = 1.5 k and $h_{fe}$ = 75 is used in an emitter follower circuit where $R_1$ and $R_2$ are used for normal biasing . Approximate value of it's current amplification is-a.)75 <b>b.)76</b>
	c.)75/76
	d.)-75
56.	Amplifier of class B has high theoretical efficiency of 78.5 percent because-
	a.) 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
57.	The coupling that produces minimum interference with frequency response is-
	a.) Direct coupling

b.)Impedance coupling
c.) R C coupling

d.)Transformer coupling

58. In the circuit shown in the given figure  $R_{\rm f}$  provides

- a.) Current series feedback
- b.)Current shunt feedback
- c.) Voltage series feedback

### d.)Voltage shunt feedback

59. Mark the correct relation for the junction transistor

$$c. \ \beta = \frac{\alpha}{1 - \alpha}$$

60. Data in the serial form can be converted into parallel form by using –a.) PISO shift registerb.) SOIP shift register

- c.) SIPO shift register
- d.) POIS shift register
- 61. PROMs are used to store-a.) bulk informationb.) information to be accessed rarely
  - c.) sequence information

## d.) relatively permanent information

- d.) none of the above
- 63. 'Not allowed' condition in NAND gate SR flip flop is -a.) s = 0, R = 0b.) s = 1, R = 1
  - c.) s = 0, R = 1
  - d.) s = 1, R = 0
- 64. Name the fastest logic family-a) TTLb.) RTL
  - c.) DCTL
  - d.) ECL
- 65. Equation corresponding to De Morgan's theorem in Boolean Algebra is -a.) (A+B)

$$(A+B) = AA + AB + BA + BB$$

- c.) A + AB = A
- d.) None of the above
- 66. In the given fig find radix of the system –

- a.) 2
- b.) 4
- c.) 6
- d.) 8
- 67. Modems are used for data transmission telephone lines to **–a.**) increase the transmission capacityb) improve noice performance

	c.) incorporate error control coding
	d.) eliminate dc component in the transmitted signal
68.	The figure of a control system is shown. The maximum value of gain K for which the
	system is stable is-
	b.) 3
	c.) 4
	d.) 5
69.	Identify the example of open-loop system-a.) A windscreen wiperb.) Aqualung
	c.) Respiratory system of an animal
	d.) A system for controlling Anti-rocket missiles.
70.	Consider the following expressions indicating the step or impulse response of an initially relaxed control system-1. $(5-4e^{-2+})$ u(t)2. $(e^{-2t}+5)$ (u(t))
	$3 . \varsigma(t) + 8e^{-2t} u(t)$
	$4 \cdot \varsigma(t) + 4e^{-2t} \cdot 4(t)$
	Those which correspond to the step and impulse response of the same system include-
	a.) 1&3
	b.) 1&4
	c.) 2&4
	d.) 1&4

Mark the most suitable V-function in this case-	
a.) Only V <sub>1</sub>	
b.) Only V <sub>2</sub>	
c.) Both $V_1$ and $V_2$	
d.) Neither V <sub>1</sub> nor v <sub>2</sub>	

72. Identity the polar plot of a typical type zero system with open loop transfer function

To test its stability by Lyapunov's method the following V functions are considered.

73.	The scattering matrix of a magic –tee shown in the given figure is-
74.	Which is the following relate to rational transfer function of a system-1. Ratio of Fourier transform of output to input with zero initial conditions.2. Ratio of Laplace transform of output to input with zero initial conditions.
	<ul><li>3. Laplace transform of system impulse response.</li><li>4. Laplace transform of system unit step response select the correct answer using the codes given below.</li></ul>
	Codes

- a.) 1 and 4b.) 2 and 3c.) 1 and 3d.) 2 and 4
- 75. For the signal g (t)  $-10 \cos (50 \text{ pt}) \cos^2 (150 \text{at})$ The Nyquist sampling state in t seconds isa.) 150 samples per second
  - b.) 200 samples per second
  - c.) 300 samples per second

#### d.) 350 samples per second

- 76. In the case of a 70 MHz 1F carries for a transponder band width of 36 MHz; energy must lie between MHz.a.) 34 and 106b.) 52. And 88
  - c.) 106 and 142
  - d.) 34 and 142
- 77. Radar used to eliminate clutter in navigational application is –a.) Pulse radarb.) Tracking radar
  - c.) MTI radar
  - d.) Mono pulse radar
- 78. 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 1.3mm
  - c.) Suitable laser devices have not yet been developed
  - d.) It does not lend itself to wavelength multiplexing
- 79. Pre-emphasis in FM systems involves-a.) Compression of the modulating signalb.) 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.

80. In a terrestrial microwave system transmission of signals is achieved through-a.) reflection from the ionosphereb.) line of sight mode
c) reflection from the ground
d.) diffraction from the stratosphere.
81. Casse grain feed is used with a parabolic reflector toa.) increase the gain of the systemb). 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.
82. In most microwave communication link rain drop attenuation is caused due to-a.) 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.
83. Circuit in the given figure represents. – a.) an astable multivibrator
b.) A monostable multivibrator
c.) Voltage controlled oscillator
d.) Ramp generator
84 $D = r$ is-a.) Maxwell's $1^{st}$ equationb.) Maxwell's II equation

	c.) Maxwell's III equation
	d.) Maxwell's IV equation
85.	In a rectangular wave-guide which TM mode exists-a.) $TM_{00}b$ .) $TM_{01}$
	c.) Tm <sub>10</sub>
	d.) TM <sub>11</sub>
86.	In directional coupler a portion of power two velliry fram port 1) to port 2) is coupled to.a). port 4b). port 3
	c.) port 2.
	d.) port 3 & 4.
07	
8/.	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
88.	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
89.	Which one is most suitable for transmission through wave guide-
	a.) Hown antennas
	b.) Bioconical antennas
	c.) helical antenna
	d. )Discone
90.	The skip distance of microwave is given by –
	a.)
	b.)
	c.)
	d.)
91.	How many general purpose registers 8085mp-
	a.) 4
	b.) 6
	c.) 8
	c.) 10
92.	8085 mP has no. of addressing modes-
	a.)2
	b.)3
	c.)4

d.)	5
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93. What will be status of z and c y flag after execution of SUB A instruction

a.) 
$$z = 0$$
,  $cy = 0$ 

b.) 
$$z = 0$$
,  $cy = 1$ 

c.) 
$$z = 1$$
,  $cy = 0$ 

$$d.)z = 1, cy = 1$$

94. 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.

95. Microprogramming is a technique

- a.) for programming the microprocessor
- b.) for writing small programs efficiently

c.) for programming the control steps of computer

d.) for programming o/p / i/p

96. High level programs like C are converted into machine language with the help ofa.) interpreterb.) compiler

- c.) operating
- d.) system

97.  $(10110011)_2 = (?)8a$ .) 253**b.) 263** 

- c.) 273
- d.) 283

- 98. A Not gate at the output of AND gate converts AND gate into-a.) NANDb.) NOR c.) AND d.) NOPE. 99. The O/P of a logic gate is the gate must be-a.) ANDb.) OR c.) NAND d.) X-OR ъ. Q Q C C Q ō K K A symbol of JK flip flop is-100. C. Q  $\mathbb{C}$ Q
- 101. A demultiplener-a.) has multiple i/p and single o/pb.) has multiple i/p and multiple o/p
  - c.) has multiple i/p and multiple o/p
  - d.) has single i/p and single o/p
- 102. Which of the following best describes the authour's attitude toward fairy tales ?a.) fascination**b.) open approval.** 
  - c.) Indulgent tolerance.
  - d.) Scornful.

103. What type of sente	ence is this ?Hurray! We won the matcha.) Exclamatory
b.) assertive	
c.) Negative	
d.) Affirmative	
Before which of th	e following word will you put 'a'a.) hourb.) M. A.
c.) Umbrella	
d.) Man	
The noun form of	'fresh' is –a.) freshlyb.) freshen
c.) fresheners	
d.) fresh itself	
The word 'clang' i	s an example of –a.) Simileb.) inversion
c.) onomatopoeia	
d.) irony	
107. The Forbes magaz of-a.) Pentafour softwareb	ine acclaimed Azim Premji as richest India's is the chairman ) Infosys
c.) IBM	
d.) Wipro	
108. Bharat Ratna awar Hussainb.) Zakeer Hussain	d for the year 2001 goes to-a.) Lata Mangeshkar and Zakeer and Bismillah Khan
c.) Bismillah Khan and I	Lata Mangeshkar
d.) Lata Mangeshkar and U	Ustad Amzad Ali Khan
109. Mr. George W-Bus succeeding Mr. Bill Clinto <b>b.)</b> 43 <sup>rd</sup>	sh takes over as —— President of the united states of America on-a.) $42^{nd}$
c.) 40 <sup>th</sup>	

d.) 45 <sup>th</sup>				
11	10. Ne	w Chief Minister of Pondicherry is-a.) T. Venkat Naidub.) K. Hari Harh		
	c.) N. Ren	gaswany		
	d.) M. Mu	dliar		
11		court has the jurisdiction to interfere with the election process once set in the Election commission. This is enshrined in Article-a.) 311b.) 329		
	c.) 356			
	d.) 365			
11	12. Ost	trich is a-a.) Running birdb.) Flying bird		
	c) Swimm	ing bird		
	d.) Migrato	ory bird		
11	13. The	e main atmospheric gas responsible for green house is-a.) Oxygenb.) Nitrogen		
	c.) Ozone			
	d.) Carbo	n-dioxide		
11	14. Wł	nich of the following is not a Kharif Crop-a.) Riceb.) groundnut		
	c.) Sugarca	ane		
	d.) gram			
11		e function of World Bank is to-a.) Help in reconstruction and development economyb.) Facilitate poor countries to trade on concessional rates		
	c.) Promot	e growth of international trade and equilibrium in balance of payments		
	d.) Ease tra	ade barriers and establish rule of fair trade		
11	16. Spe	eed of sound is maximum in-a. )Waterb.) Air		
	c.) Steel			
	d.) Vacuur	n		

"Long years ago we made a trust with destiny." Whose words are these-a.) 117. Subhash Chandra Boseb.) Jawaharlal Nehru c.) Lajpat Rai d.) Bhagat Singh 118. Durand cup is associated with-a.) Hockeyb.) Tennis c.) Football d.) Badminton 119. Rabindranath Tagore was awarded the Nobel Prize in literature in the year.a.) 1908b.) 1910 c.) 1913 d.) 1914 India successfully conducted its first underground nuclear experiment at Pokhran in Rajas than on-a.) May 18, 1975b.) May 20, 1974 c) May 17, 1974 d.) May 17, 1974 An emergency loan of \$ 500 million to help reconstruct infrastructure in earth 121. quake devastated Gujarat approved by-a.) Asian development Bankb.) World Bank c.) Swiss Bank

d.) Reserve Bank of India