

TNUSRB TECHNICAL SI ~ 2018 TENTATIVE ANSWER KEY

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	Booklet S	Perie	s-C		
TJU-	-3129	-2-			
	PART – A : Ge	neral	Knowledge		
A.	The study of Inscription is called A) Archaeology B) Numismatic	.C)	Epigraphy	D) Palaeography	
2.	Which of the following Act of British I at all levels? A) Indian Criminal Law Amendment B) Multi-fanged Defence of India Ru C) The Press Act (1910 A.D.) D) Rowlatt Act (1919 A.D.)	Act (1908 A.D.)	st in every part of India	
3.	Viceroy of India during Jallianwala B A) Lord Curzon B) Lord Chelmsfe			er D) Lord Minto	
	A) Swadeshi Movement C) Quit India Movement	B)	s Khilafat Move Non Cooperat		
5.	The High Commissioner for India in A) Parliament of England C) The Govt. of India	B)	nited Kingdom Secretary of S None of the al	tate of India	
6.	With regard to division of power, unc A) Union list C) Concurrent list	·B)	ich list is the su State list Residuary pov	tobu isas i nouseur en i	
7.	Who was the first Vice-President of IA) Dr. S. Radhakrishnan C) Venkatraman	B)	Pr. Rajendra I V. V. Giri	Prasad	
8.	Who is going to be next Chief Justice A) Ranjan Bhattacharya C) Ranjan Das	B)	dia ? Ranjan Gogoi Ranjan Bora	S. America in the 160 que	
9.	Neeraj Chopra won gold medal in 20 A) Discus Throw B) Javelin Throw				
10.	A) Internet of Transaction C) Internet of Things		Integration of Information of	Time	
11.	What is the property of cells to devel A) Totipotency B) Pluripotency			ants called ? D) Differentiation	
12.	Which of the following is not a biofer A) Anabaena B) Baculoviruses			D) Nastoc	
13.	Which of the following terms is not re A) BOD B) Glomus			atment ? D) Sludge	
14.	The term that describes the pheno	omen	on of increase	in the concentration of	

SI (Taluk) Previous Year Question Paper: https://goo.gl/rhmn6b

A) Eutrophication B) Melanism C) Biomagnification

pesticides in the food chain, is

D) Biofortification

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Personness Person			-3-		T.	JU-3129
	The concept of Ne A) Samuelson				th D) Lionel Robbins	
	The lipid present i A) Phospholipid				D) Lecithin	
	In the presence of A) Increases C) Remains unch	139		Decreases		
18.	$_{92}U^{235} + _{o}n^{1} \rightarrow _{42}N^{2}$	Mo ⁹⁸ + ₅₄ Xe ¹³⁶	$6 + x_{-1}e^{0} + 2$	2 _o n ¹		
	Then x is A) 1	B) 2	C)	3	D) 4	
19.	The maximum per 127°C and 27°C is		ciency pos	sible from	an engine working bet	ween
		B) 100%	(C)	78.7%	D) 67%	
20.	Medicine used for A) Antimalarial			Antifungal	D) Antibiotic	
21.	The Government A) The Constitution C) From Pitt's Indian	of India Act of on of Australia	1935 borro B)	owed its Pre The Const	eamble from	1919
22.	Who among the for A) Mahatma Gan C) Syed Ahamed	dhi	B)	Bipin Char		? YE
	March 12, 1930 ?				e famous 'Dandi March	of
	A) 78 Superior Michiga	B) 112	A SHEET	16	D) 54	frooh
24.	water lakes in the A) North America	continent of			D) Europe	a (A
25.					e would increase faster	than
	the food supply? A) Thomas Hardy C) Thomas Alva I	SECURITION OF THE PARTY OF THE		Thomas M Thomas W	althus /att	
26.	Who is the curren A) Javed Mianda C) Wasim Akram	d	B)	tan ? Imran Naz Imran Kha	of these places is N n	
27.	Which of these is	odd one out				
	a. E-bay b. Facebook c. Alibaba					
4	d. Amazon A) a	B) b	C)	C	D) d	A) Coi

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28.	Which country won gold in Men's Hock A) Pakistan B) South Korea			Games? - Jayous D) Malaysia
29.	Which one is the odd one out? a. Mozilla b. Safari c. Windows d. Chrome A) a	C)	biglerosisi	wrong key D) d
30.	Who is the current CEO of Microsoft ? A) Bill Gates C) Satya Nadella		Sundar Pichai Indra Nooyi	Then x is A) 1 A)
\$1.	When sodium acetate is added to acetacid A) Increases C) Does not change	B)	Decreases Becomes zero	A) 25% B) 10 20 Medicine used for curing
32/.	Methyl ketones are usually characterise A) The Fehling's solution C) The Schiff's test	B)		
33.	The compound used to cut glasses A) Silicon tetra chloride C) Silicon carbide		Sodium silicat Silicon dioxide	A) Mahama Gandhi C) Syed Ahamed Khanet Z. How many volunteers ha
34.	A fish that is commonly introduced into A) Gambusia B) Hilsa	- Care 15		
35.	HIV attacks which of the following cells A) B Lymphocytes B) Monocytes		T Lymphocyt	es D) Neutrophils
	Foodstuffs, shoes, pottery and brick from A) Cottage manufacturing C) Small scale manufacturing	B)	Chemical bas	ed industries
37.	A) Kerala B) W. Bengal			
38.	Which of these places is NOT in sea con A) Cochin B) Kolkotta		NOTES D	D) Bangalore
39.	The Trans-Siberian Railway is in A) Japan B) China	(C)	Russia	D) Africa
40.	What do Bokaro, Durgapur, Raniganj a A) Coal fields B) Iron ore			in common ? D) Hydraulic power stations



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 \star 41. A wire of resistance 8Ω is bent into a circle. The resistance between ends of a diameter of the circle is

- A) 8Ω

- B) 2Ω C) $\frac{1}{8}\Omega$ D) $\frac{1}{16}\Omega$

.42. A cube of side 'b' has a charge 'q' at each of its vertices. What is the electric potential at the centre of the cube?

43. If an electron and a proton are projected at right angles to a uniform magnetic field with the same linear momentum

- A) The electron trajectory will be less curved than the proton trajectory
- B) The proton trajectory will be less curved than the electron trajectory
- C) Both trajectories will be equally curved
- D) Both particles move in a straight line

44. A lens of power -2.0 D is placed in contact with another lens of power + 1.0D. The combination will behave like

- A) Converging lens of focal length 100 cm
- B) A diverging lens of focal length 100 cm
- C) A converging lens of focal length 50 cm
- D) A diverging lens of focal length 50 cm

*45. What happens if the monochromatic light used in Young's double slit experiment is replaced by white light?

- A) All bright fringes become white
- B) All bright fringes have colours between violet and red
- C) Only the central fringe is white, all the other fringes are coloured
- D) No fringes will be observed

46. Partners who contribute capital but does not take part in the management is called as

A) Active partner

B) Nominal partner

C) Sleeping partner

D) Partner by Estoppel

47. Average fixed cost is obtained by dividing

- A) TC/Q
- B) TFC/Q C) TVC/Q D) None

48. This business system is found only in India

A) Sole Proprietorship

- B) Partnership
- C) Joint Hindu Family Business D) Co-operative Society

49. A firm can achieve equilibrium when its

- A) MC = MR
- B) MC = AC
- C) MR = AR D) MR = MC

50. The head office of the Securities and Exchange Board of India (SEBI) is in

- A) Kolkatta B) Mumbai C) Chennai D) Delhi

APPOLO STUDY CENTRE ~ CHENNAI www.tnpscjob.com TJU-3129 51. Which of these is a ferrous metal? A) Copper B) Brass C) Manganese D) Lead 52. The first All-India Census was completed in the year C) 1874 D) 1881 A) 1870 B) 1872 53. In which year the Family Court Act was formulated? B) 1984 C) 1980 D) 1982 A) 1985 54. Which of the following has a Presidential form of Government? B) U.S.A. C) Britain A) India 55. How can the Chief Election Commissioner be removed? And by whom? A) By the President on the recommendation of Supreme Court B) By the President on the recommendation of Cabinet C) By the President on the recommendation of Parliament D) By the President on the recommendation of the other two Election Commissioner Choose the incorrect statement from the following. A) If the electric field is zero at a point, the electric potential must also be zero at that point B) If electric potential is constant in a given region of space, the electric field must be zero in that region C) Two different equi-potential surfaces can never intersect D) Electron moves from a region of lower potential to a region of higher potential 57. In an a.c. circuit the potential difference 'V' and current 'l' are given respectively by V = 100 sin(100t) volt and I = 100 sin (100t + $\frac{\pi}{3}$) mA. The power dissipate in the circuit will be B) 10 W C) 5 W D) 2.5 W A) 104W 58. A radioactive substance disintegrates $\frac{1}{64}$ of initial value of 60 seconds. The half life of the substance is A) 5S C) 30S D) 20S B) 10S 59. The magnifying power of telescope is high if A) Both objective and eye-piece have short focal length B) Both objective and eye-piece have long focal length C) The objective has a long focal length and the eye-piece has a short focal length D) The objective has a short focal length and the eye-piece has a long focal length 60. Violet light can cause photoelectric emission from a metal but blue light cannot. If sodium light is incident on the metal, then A) The photoelectric current decreases

C

B) The number of photoelectrons ejected per second increases

C) The velocity of photoelectrons increases

D) No photoelectric emission occurs

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PART - B: Technical Subject

61.	In superconductivit	y, the electrical	resistance of material	becomes
		D) 1 0 111	O/ E: :	D) 11 "

- D) Unity

62. The function on an oscilloscope that "locks in" waveforms so that they do not scroll horizontally across the screen is called the

- A) Horizontal sync
- B) Time base
- C) Beam finder
- D) Trigger

63. Any radiation of appropriate wavelength fall on the depletion layer of p-n junction develops a potential difference between the junction is working principle of

- A) Hall effect sensor
- B) Proximity sensor

C) Light sensor

D) All of the above

64. Super position theorem is applicable for

- A) Non-linear circuits only

 B) Linear circuits only

 - C) Linear and non-linear circuits D) None of these

65. Norton's theorem results in

- A) A current source with an impedance in parallel
- B) A voltage source with an impedance in series
- C) A current source alone
- D) A voltage source alone

66. When a tri-stated register is disabled, the output level of the register is

A) Floating

B) High impedance state

C) Pulled low

D) Floating and high impedance state

67. Given the two binary numbers X = 1011000 and Y = 1000111, perform the subtraction X - Y using 2's complement.

- A) 0011111
- B) 0010000
- C) 0010001
- D) None of the above

68. In a 16:4 priority encoder, lowest priority is given on

- A) 7
- B) 0
- C) 9 D) F

69. What is the required baud rate for efficient operation of serial port devices?

- A) 1200
- B) 2400
- C) 4800

70. The two pins in 8085, specially designed for software controlled serial I/O are

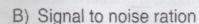
- A) SIM, RIM
- B) SID, SOD C) RD, WR
- D) T x D, R x D

71. VSB modulation is preferred in TV because

- A) It reduces the bandwidth requirement to half
- B) It avoids phase distortion at low frequencies
- C) It results in better reception

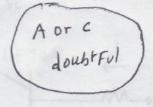
72. Carson's rule is used to calculate A) Bandwidth of FM signal

D) None of the above



C) Modulation index

D) Noise figure



APPOLO STUDY CENTRE ~ CHENNAI www.tnpscjob.com TJU-3129 -8-73. In binary phase shift keying system, the binary symbols 1 and 0 are represented by carrier with phase shift of A) 7/2 C) 2_{\pi} B) π 74. Rise Time Budget is a method to find the ____ limitation of an optical fiber link. C) Quantum A) Attenuation B) Dispersion D) Data rate 75. The relation between carrier power and total power in an amplitude modulated wave is given by A) $P_{C} = P_{T} \left(1 + \frac{m^{2}}{4} \right)$ B) $P_T = P_C \left(1 + m^2 / 2 \right)$ C) $P_C = P_T (1 + m^2/2)$ D) $P_c = 2P_T$ 76. An amplitude modulated amplifier has a radio frequency output of 50 W at 100% modulation. The internal loss in the modulator is low, the unmodulated carrier power is B) 50 W C) 40 W D) 30 W 77. In Viterbi's algorithm, the selected paths are regarded as B) Defenders C) Destroyers D) Carriers A) Survivors 78. The capacity of a binary symmetric channel, given H(p) is binary entropy function is A) 1 - H(p)B) H(p) - 1C) 1 - H(p)2D) H(p)2 - 179. Mobile Assisted Handoff (MAHo) provides A) Faster handoffs B) Suitability for frequent handoffs C) MSC need not monitor the signal strength D) All of the above 80. Population inversion is obtained at a p-n junction by A) Heavy doping of p-type material B) Heavy doping of n-type material C) Light doping of p-type material D) Heavy doping of both p-type and n-type material 81. Assuming $V_{CE\ (sat)}=0.3\ V$ and $\beta=100$, the minimum base current (I_B) required to drive the transistor in the figure to saturation is

11 27 mA

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82. If the source resistance of the current source I_{FF} in the differential amplifier is infinite, then common mode gain is

- A) Infinite
- B) Indeterminate C) Zero
- D) $(V_{in_1} + V_{in_2}) + 2 V_T$

83. The transconductance g_m of JFET is equal to

B) $\frac{-2 I_{DSS}}{V_P} \left(1 - \frac{V_{GS}}{V_P} \right)$

C) $\frac{2}{|V_0|} \sqrt{|V_0|}$

D) $\frac{I_{DSS}}{V_{P}} \left(1 - \frac{V_{GS}}{V_{P}} \right)$

84. A cascode Amplifier has the advantage of

A) Large Voltage gain

B) High output impedance

- C) Large Bandwidth
- D) All of these

85. If the output of an amplifier is 10V and the feedback voltage is 100mV, then the feedback factor is

- A) 0.1
- B) 1
- C) 0.01
- D) 1.5

86. Which semiconductor power device out of the following is not a current triggered device?

- A) Thyristor
- B) MOSFET C) GTO D) Triac

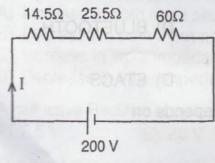
87. For purely reactive circuits, the phase angle between voltage and current is

- A) 90°
- B) 30°
- C) 45°

88. A battery has an EMF of 12.8 volts and supplies a current of 3.24A. What is the resistance of the circuit?

- A) 6Ω
- B) 4Ω
- C) 10Ω D) 8Ω

89. Calculate the voltage drop across 14.5Ω resistor in the circuit



- A) 18 V
- B) 30.5 V
- C) 29 V

90. A triangular wave shape is obtained by

- A) Integrating a sine wave
- B) Differentiating a square wave
- C) Integrating a square wave
- D) Differentiating a sine wave

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- 91. The 8255 PPI is used as described below:
 - i) An A/D converter is interfaced to a microprocessor through an 8255. The conversion is initiated by a signal from 8255 on Port - C. A signal on Port - C causes data to be stored into Port - A.
 - ii) Two computers exchange data using a pair of 8255s. Port A works as a bidirectional port supported by appropriate handshaking signals.

The appropriate modes of operation of 8255 for (i) and (ii) would be

- A) Mode 0 for (i) and Mode 1 for (ii)
- B) Mode 1 for (i) and Mode 2 for (ii)
- C) Mode 2 for (i) and Mode 0 for (ii)
- D) Mode 2 for (i) and Mode 1 for (ii)
- 92. For the 8085 ALP given below, the content of A-register after execution is

3000 MVI A, 45 A

3002 MOV B, A

3003 STC

3004 CMC

3005 RAR

3006 XRA B

- A) 00 H B) 45 H C) 67 H D) E7 H
- 93. List out the control signal of DMA in 8085.
 - A) HOLD and HLDA

B) HOLD only

C) HOLD and ACK

- D) HLDA and RESET IN
- 94. The first machine cycle of an instruction is always
 - A) A memory read cycle

 B) A fetch cycle

C) An I/O read cycle

- D) A memory write cycle
- 95. Which is the highest priority interrupt in 8085?
 - A) TRAP
- B) RST 6.5
- C) RST 5.5
- D) RST 7.5

- 96. IEEE 802.15 standard refers to
 - A) WLAN
- B) OFDM
- C) ETHERNET
- D) BLUETOOTH

- 97. 3G W-CDMA is also known as
 - A) UMTS
- B) DECT
- C) DCS 1800
- D) ETACS
- 98. The maximum frequency deviation of an FM signal depends on
 - A) Maximum amplitude of the modulating signal
 - B) Bandwidth of the modulation signal
 - C) Maximum amplitude of the carrier signal
 - D) Frequency of the modulating signal
- 99. The amplitude of the carrier is made proportional to the instantaneous amplitude of the modulating voltage
 - A) Frequency modulation
- B) Phase modulation
- C) Phase width modulation
- D) Amplitude modulation

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100.	What is the carrier frequency in an AM w is 850 Hz and the bandwidth of the sign A) 80 Hz B) 695 Hz	al is 50 Hz?	frequency component 825 Hz			
101.	Which of the following cannot be checked A) Character B) Integer		tatement ? Enum			
102.	A mechanism used to verify and mainta A) Parity B) RAID		data is SATA			
		B) Upper case letters D) None of the above				
	The state of the s	service ? B) Landline D) Digital subscriber	line			
105.	Which of these is not applicable for IP p A) Is connectionless C) Offer unreliable service	B) Offer reliable serv	vice Samuel Samu			
106.	In wein bridge oscillator, if the value of I of oscillation is 10 kHz, then the value of A) 129 pF B) 131 pF	f capacitor C is	Page Ab QL (A)			
107.	The current gain of a transistor in CE m gain is A) 99 B) 50		on Base Current 0.98			
108.	For a Zener diode, having maximum Ze the maximum power dissipation is A) 1 W B) 5 mW		and voltage $V_z = 10V$, 0.5 W			
109.	Voltage series feedback (also called ser A) Increase in both input and output im B) Decrease in both input and output in C) Increase in input impedance and dec D) Decrease in input impedance and in	pedance npedance crease in output impe	edance			
110.	A half wave Rectifier supplies 100 mA cu A) 2.5 V B) 25 V		. Its dc output voltage is 0.25 V			
111.		B) Eddy current loss				
112.	An external resistance 'R' is connected of 'r'. The maximum current flows in the	external resistance v				

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	A stepper motor with a step angle of 12 300 steps/second. What is the motor s A) 600 rpm B) 300 rpm	pee	d?	ne od odt fyre sid OPP al
114.	One of the following can act as an inve A) Electrical resistance potentiometer C) Capacitive transducer	B)	LVDT	crystal Caracter As
115.	In a 3½ digit voltmeter, the largest number A) 0999 B) 1999			
116.	A) Azimuth C) Right angle	B)	Angle of eleva	
	The radiation pattern of Yagi-Uda ante A) Omnidirectional C) Unidirectional	B)	is Bidirectional None	
118.	The circuit attenuate a given frequency A) Band pass filter C) High pass filter	ba B) D)	nd Low pass filter Band eliminati	on filter lead to dointy 201
119.	The solid area through which all the po A) Beam area B) Effective area			
120.	The directivity of an isotropic antenna i A) 10 dB B) 0 dB			D) 3 dB
121.	Syn flooding attack belongs to a group A) Denial of service attack C) Replay attack	B)		
122.	Which one is not the responsibility of DA) Logical Addressing C) Flow control	B)	ALINK layer ? Physical Addr Error control	essing Annex 6 104 1801
123.	A video consists of a sequence of A) Frames B) Signals	C)	Packets	D) Slots
124.	Extension of MS-Word file is A) wrd B) xls	C)	jpg	D) doc
125.	To print 'a' and 'b' declared as below, you use?	whi	ch of the follow	ing printf() statement will
	float a = 3.14; double b = 3.14; A) printf("%f%lf",a, b);	R)	printf("%Lf%f"	a h): Vasa Pediteres
		*	printf ("%f% L	
126.	A source alphabet consists of N symbologing the same. A source encoder incremall amount ϵ and decreases that of the source	eas	es the probabil	ity of the first symbol by a
	A) Increases C) Increases only if N = 2		Remains the s	same myem entrological

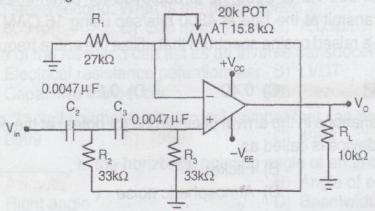
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127.	An ideal bandpass channel 500 Hz A modem is designed to transmit at roll-off factor of a pulse with a raised of band is A) 0.50 B) 0.25	the rate of 4800 bits/sec us	sing 16 QAM. The ne entire frequency				
128.	Noise caused by random variations in electrode of an amplifying device is (A) Transit time noise C) Shot noise	the arrival of electrons (or h					
129.	If a typical light detector produces 40 is the responsitivity? A) 3200 B) 0.5	μα of current for 80 μw of i C) 120 D) 40					
130.	What is the sampling rate of a signal A) 1 samples/sec C) 10 samples/sec	when it is sampled at every B) 100 samples/sec D) 1000 samples/sec	/ 0.001 sec ?				
131.	An amplifier has an open loop gain of loop gain of the amplifier with negation A) 20 B) 10	ve feedback is	of 0.49. The closed one of the above				
132.	The forbidden energy gap for silicon A) 1.12 eV B) 0.32 eV	is C) 0.72 eV D) 1.1	12 eV				
133.	In a semiconductor diode, V-I relation A) Current varies linearly with voltage B) Current increases exponentially of C) Current varies inversely with voltage D) None of these	ge with voltage					
134.	In a NPN transistor, when the emitted junction is reverse biased, then the total A) Active region C) Cut-off region		d and the collector				
135.	The input impedance of a common B A) High B) Low		proximately equal to 1				
136.	An ideal OPAMP is an ideal A) Voltage controlled current source C) Current controlled current source						
137.	An RS Latch is a A) Combinational circuit C) One bit memory element	B) Synchronous sequer D) One clock delay eler					

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138. The following OPAMP circuit is identified as



- A) I order LPF B) I order HPF C) II order LPF D) II order HPF
- 139. Four JK flip-flops are cascaded with their JK inputs tied HIGH. If the input frequency to the first flip-flop is 32 kHz, the output frequency is
 - A) 1 kHz
- B) 2 kHz
- C) 4 kHz D) 16 kHz
- 140. In a Phase Lock Loop (PLL), if the low pass filter is replaced with a high pass filter, the response of the PLL would be
 - A) Generated with many high frequency components
 - B) Unstable due to variations in control voltage of VCO
 - C) Non-square wave output
 - D) All the above
- 141. Ducting occurs in which region of the atmosphere?
- A) Stratosphere B) Ionosphere C) Troposphere D) Ozone layer

- 142. Sterdian is a measurement unit of

 - A) Point angle B) Linear angle
- C) Plane angle D) Solid angle
- 143. The cut-off frequency of an LC low pass filter is

- 144. In the far field, characteristic impedance of free space is
 - A) 75Ω
- B) 50Ω
- C) 377Ω
- D) 277Ω
- 145. The polarization of an electromagnetic wave is defined by the direction of
 - A) The H field

- B) Propagation
- C) The receiving antenna
- D) The E field
- 146. Golay codes are useful in
 - A) Detecting any combination of three or fewer random errors in a block of 27 bits
 - B) Correcting any combination of 3 or fewer random errors in a block of 23 bits
 - C) Detecting any combination of 3 or more random errors in a block of 23 bits
 - D) Correcting any combination of 3 or more random errors in a block of 27 bits
- 147. The ability of the receiver to select the wanted signals among the various incoming signals is termed as

- A) Sensitivity B) Selectivity C) Stability D) None of the above

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149.	Lempel-Ziv algorithm is A) Variable to fixed length algorithm C) Fixed to fixed length algorithm Transistor T ₁ operates at 20 kHz and A) More in T ₁ B) More in T ₂ The total no. of modes M entering the	D) T ₂ ope C)	Variable to varia erates at 200 Hz Equal in both	able length algo z. The flicker no D) Depends or	rithm ise is n bias
	fiber 'r' and refractive indices (n ₁ , n ₂) is	give	n by the relation	1	
	A) $M = 2\pi^2 r^2 \sqrt{n_1^2 - n_2^2}$		$M = \left(2\pi^2 r^2 / \lambda^2\right)$	1	
151.	C) $M = 2\pi^2 r^2 \lambda^2 n_1^2 n_2^2$ Which interface can be used to conne A) Serial interface C) USB	ct the	$M = 2\pi^2 r^2 / \lambda^2 (r^2)$ e printer to proce Parallel interfact SCSI	essor?	
152.	Digital signature uses A) One key C) 4 private keys		Pair of private a No keys	nd public keys	
153.	PowerPoint do not allow A) Bullets C) An organizational chart		Graph To run a query		
154.	If-else statement in 'C' program can b A) Short hand operator C) Special operator	B)	laced with Conditional ope Type cast		
155.	Which is the unconditional statement A) Nested if statement C) Else-if ladder	B)	Switch stateme	nt	
156.	The device parameters for an n-chann pinch-off voltage $V_p = -4V$. The drain A) 0 A B) 10 mA	curre	ent for $V_{GS} = -4$	V is	10 mA,
157.	In a P-type silicon, the hole concentration is 1.5×10^{10} cm ⁻³ , then A) 0 B) 10^5 cm ⁻³	the el	ectron concentr	ation is	
158.	In a power supply, the DC output volta load. The percentage of voltage regula A) 5% B) 4.76%	ation	is	th no-load to 42) 4.4%	V at full
159.	The minimum value of current require A) Commutation current C) Gate trigger	B)	naintain conduc Holding current Break over		

160. The Early-Effect in a bipolar junction transistor is caused by A) Fast-turn-ON B) Fast-turn-OFF

C) Large collector-Base reverse bias D) Large emitter-base reverse bias