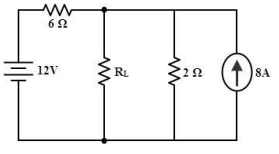
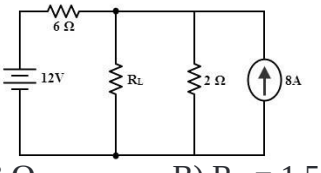
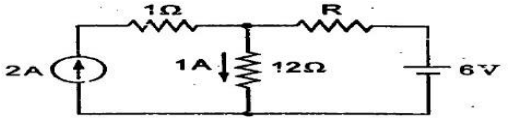
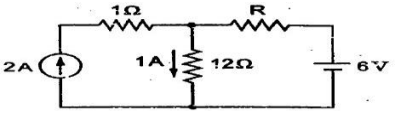
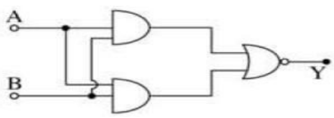
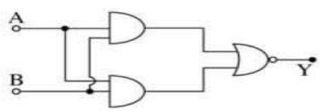
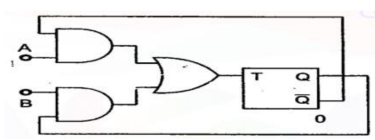
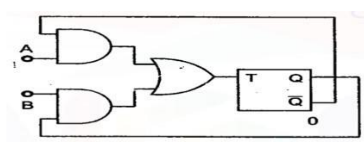
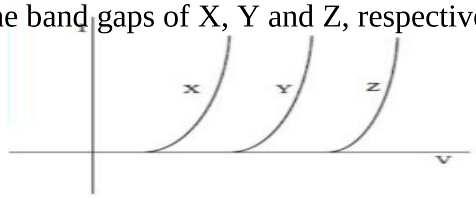
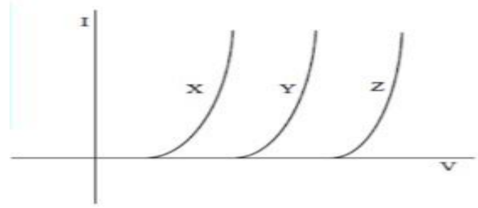
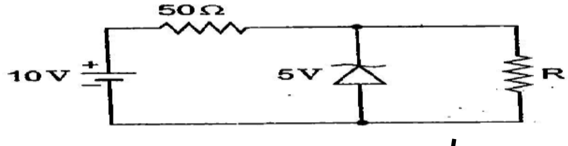
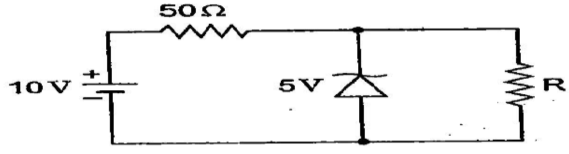
	explanation of A C) A is true but R is false D) A is false but R is true	D) □ □□□ □ □□□□□ □ □w □
2.	The value of total potential difference created between the electrodes, when the cell is not connected to an external circuit is known as its: - A) Electromotive force B) Electrostatic force C) Electromagnetic force D) Electrochemical force	□□□4□□ □□ □□□ □□□□□ □□ □□□□ □□□□ □□ □□□, □□□□□□□ □□□□ □□ □□□ □□□ □□□□ □, □□ □□□□□ □: - A) □□□□□ □□□□□ □□ B) □□□4□□□□ □□ C) □□□□□ □r□□ □□ D) □□□□□ □□□□□□□ □□
3.	A 4Ω resistor is connected in series with a 10 mH inductor, across a 100 V, 50 Hz voltage source. The impedance of the circuit will be - A) 5 – j 3.14 B) 5 + j 3.14 C) 4 – j 3.14 D) 4 + j 3.14	□□ 4Ω □□□□□□ 10 mH □□□□ □□ □□□ 100 V, 50Hz □□□□□ □□□ □□ □□□ 5□ □□ □□ □□ □□□□□□□ □□□□ : A) 5 – j 3.14 B) 5 + j 3.14 C) 4 – j 3.14 D) 4 + j 3.14
4.	A 1μF capacitor is connected to 12 V battery. The energy stored in the capacitor is: A) $12x10^{-6}$ J B) $24x10^{-6}$ J C) $36x10^{-6}$ J D) $72x10^{-6}$ J	□□ 1μF □□□□T 12V □□□□ □□ □□□ □□ □□□□T □ő □□□□ _ _____□: A) $12x10^{-6}$ J B) $24x10^{-6}$ J C) $36x10^{-6}$ J D) $72x10^{-6}$ J
5.	An open coil has – A) zero resistance and zero inductance B) infinite resistance and infinite inductance C) infinite resistance and zero inductance D) zero resistance and infinite inductance	□□ □□□ □□□□ □ő _____□□□ □ - A) □q □□□□□ □□ □q □□□ B) □□□ □□□□□ □□ □□□ □□□ C) □□□ □□□□□ □□ □q □□□ D) □q □□□□□ □□ □□□ □□□
6.	Determine the value of load resistance, R_L for which maximum power will transfer from source to load –  A) $R_L = 8\ \Omega$ B) $R_L = 1.5\ \Omega$ C) $R_L = 4\ \Omega$ D) $R_L = 3\ \Omega$	□□□ □□□□□□, RL □□ □□□ □□□□□□ □□ő , □□□ □□ □□□□□ □□4 □□□ □□ □□□ □□ő 3□□□□□□□ □□□□ -  A) $R_L = 8\ \Omega$ B) $R_L = 1.5\ \Omega$ C) $R_L = 4\ \Omega$ D) $R_L = 3\ \Omega$
7.	If a 12Ω resistor draws a current of 1A as shown in the figure, the value of resistance R is -  A) 4 Ω B) 6 Ω C) 8 Ω D) 18 Ω	□□□ □□ 12 Ω □□□□□□□ □□ 1A □□ □□□□ □□□□□□ □□□□ □ □□□ □□ □□T □ő □□□□□□ □□□ □, □□□□□□ R □□ □ы □□ □□□□-  A) 4 Ω B) 6 Ω C) 8 Ω D) 18 Ω
8.	Twelve 1-ohm resistances are used as edge to form a cube. The resistance between two diagonally opposite corners of the cube is: A) 5/6 Ω B)1 Ω C) 6/5 Ω D. 3/2 Ω	□□ □□ □□□□□ □□ □□□ □□□□ 1-□□ □□□□□□ □□ □□□□V□ □ő □□□□□ □□□□ □□□ □□ □□□□T □□ □□□□ □□ □3□□ □□□□□ □□□□ □□ □□□ □□□□□ □□ □□□□: A) 5/6 Ω B) 1 Ω C) 6/5 Ω D) 3/2 Ω

	C)AB + ACB D) AB + AC + BC	
10.	PLAs, CPLDs, and FPGAs are all which type of device? A) SLD B) PLD C) EPROM D) SRAM	[illegible](PLA)s, [illegible](CPLD)s [illegible](FPGA)s [illegible]? A) [illegible](SLD) B) [illegible](PLD) C) [illegible](EPROM) D) [illegible](SRAM)
11.	To multiply a number by 8 in 8085 Microprocessor we have to use RAL instruction: A) Once B) Twice C) Thrice D) Four times	8085 [illegible] 8 [illegible](RAL) [illegible]: A) [illegible] B) [illegible] C) [illegible] D) [illegible]
12.	ASCII code is used as – A)An alphanumeric Code B)A Weighted Code C)A Cyclic Code D)An Alphabetic Code	[illegible](ASCII) [illegible] – A) [illegible] B) [illegible] C) [illegible] D) [illegible]
13.	Decimal Number $(85)_{10}$ is encoded as 11000101 in – A) 8421 Code B) 2421 Code C) 4421 Code D) 2221 Code	[illegible] $(85)_{10}$ [illegible] 11000101 [illegible] – A) 8421 [illegible] B) 2421 [illegible] C) 4421 [illegible] D) 2221 [illegible]
14.	The circuit given below is functionally equivalent to:  A)Inhibit Gate B)NAND Gate C)Full Adder D)Comparator	[illegible]:  A) [illegible] B) [illegible](NAND) [illegible] C) [illegible] D) [illegible]
15.	What is represented by the digital circuit given in the figure below:  A) A J-K Flip-Flop with A=J and B=K. B) An S-R Flip-Flop with A=S and B=R. C) An S-R Flip-Flop with A=R and B=S D) A J-K Flip-Flop with A=K and B=J.	[illegible] T [illegible]:  A) A=J [illegible] B=K [illegible] J-K [illegible] B) A=S [illegible] B=R [illegible] S-R [illegible] C) A=R [illegible] B=S [illegible] S-R [illegible] D) A=K [illegible] B=J [illegible] J-K [illegible]
16.	The phase correcting circuit is: A) High–pass filter B) Low–pass filter C) All–pass filter D) Band–pass filter	[illegible]: A) [illegible] B) [illegible] C) [illegible] D) [illegible]
17.	The response of an LTI/LSI system is given by the ________of input and impulse response: A) Convolution B) Correlation C) Superposition D) None	[illegible](LTI/LSI) [illegible] ________ [illegible]: A) [illegible] B) [illegible] C) [illegible] D) [illegible]

	B) The value of sensitivity on the highest scale C) The value of sensitivity on the lowest scale D) The smallest signal which result in a detectable output	C) □□□□ ™ □ □□ □□□□□□□□□ □□ □□□ D) □□□□□ □□□□ □□□□ □ □□□□□ □□□□□□4V□ □□□□□□ □□□ □□ □□□
20.	Ratio error in the current transformer is attributed to: A) Power factor of the primary B)Leakage flux C)Exciting current D)Wattless component of the current in primary	□□□□□ □□□ □□□□□□ □ő □□□□□ T□□ □□ □□□ □□ □□□□ ? A) □□□□□ □□ □□□□ □4□ B) ¡□□□ ů□□ C) □K□□□□ □□□ D) □□□□□ □ő □□□ □□ □□□□□ □□□
21.	The memory that communicates directly with CPU is called: A)Auxiliary memory B)USB storage C)Main memory D) Micro-Program Memory	□□□□(CPU) □□ □□□ □□□□ □□□□ □□□□ □□□□ □□□□ □□□□□ □: A) □□□□□□□□ □□□□□ B) □□□□□(USB) □□□□ C) □□ □□□□□ D) □□□□-□□□□ □□□□□
22.	The following property of semiconductors cannot be determined from Hall effect: A) Semiconductor is n–type or p–type B) The carrier concentration C) The mobility of semiconductor D) The atomic concentration of semiconductor	□□□□□□4□ □□ □□□□□□□ □□ □□ □□□ □□4 □□ □□□□ □□□ □□ □□□□ □: A) n – ů□□ □□ p – ů□□ □□ □□□□□□ B) □□□ □□□ť□ C) □□□□□□ □□ □□□□□□ D) □□□□□□ □□ □□□□ □5□
23.	The components of full-wave voltage double circuit are: A)2 diodes and 1 capacitor B)2 diodes and 2 capacitors C)4 diodes and 1 capacitor D)4 diodes and 2 capacitors	□□-□□□ □□□□□ □ □ő □□□□ □□ □□□ □□□□□ □: A) 2 □□□□ □□ 1 □□□T B) 2 □□□□ □□ 2 □□□T C) 4 □□□□ □□ 1 □□□T D) 4 □□□□ □□ 2 □□□T
24.	Fermi level in a p-type semiconductor lies close to which one of the following? A) The top of the valance band. B) The bottom of the valance band. C) The top of the conduction band. D) The bottom of the conduction band	□□-□□□ □□□□□□□4□ □ő □□□™ □ □□□□□□□ □ő □□□□□□ □□□□ □? A) □□ő □ □□ □□ □□ □□ B) □□ő □ □□ □□ □□□ □□ C) □□λ □ □□ □□ □□ □□ D) □□λ □ □□ □□ □□□ □□
25.	A region of negative differential resistance is observed in the current voltage characteristics of a silicon PN junction if- A)both the P-region and the N-region are heavily doped B)the N-region is heavily doped compared to the P-region C)the P-region is heavily doped compared to the N-region D)an intrinsic silicon region is inserted between the P-region and the N-region	□□□□□ô □ □□□□ □□□□□□ □□ □□ □□T □□□□□□□ □□□□ □4□ □□ □□□ □□□□□□ □□□□□□□ □ő □□ □□ □□□□□- A) P- □□T □□ N- □□T □□□□ □□ □□□□ V□ □□ □□□ □□□ B) N- □□T □□ P- □□T □□ □□□□ □ő □5□ □□□□ □□□□□□ □□ C) P- □□T □□ N- □□T □□ □□□□ □ő □5□ □□□□ □□□□□□ □□ D) □□ □□□□ □□□□□□ □□T P- □□T □□ N- □□T□ □□□ □ő □t3□□□□□ □□□□ □□□ □□

	English	Hindi
	by applying +ve bias to gate	D) [illegible] + [illegible] (MOSFET) [illegible]
27.	The I-V characteristics of three types of diodes at the room temperature, made of semiconductors X, Y and Z, are shown in the figure. Assume that the diodes are uniformly doped and identical in all respects except their materials. If EgX, EgY and EgZ are the band gaps of X, Y and Z, respectively, then  A) EgX>EgY>EgZ B) EgX = EgY = EgZ C) EgX<EgY<EgZ D) No relationship among these band gaps exists	[illegible] X, Y [illegible] Z [illegible] I- V [illegible] EgX, EgY [illegible] EgZ [illegible] X, Y [illegible] Z [illegible]  A) EgX>EgY>EgZ B) EgX = EgY = EgZ C) EgX<EgY<EgZ D) [illegible]
28.	The large signal bandwidth of an op-amp is limited by its: A) Loop gain B) Slew rate C) Output impedance D) Input frequency	[illegible] (op-amp) [illegible]: A) [illegible] B) [illegible] C) [illegible] D) [illegible]
29.	In a full wave rectifier with input frequency of 50 Hz, the frequency of the output is: A) 200 Hz B) 150 Hz C) 100 Hz D) 50 Hz	50 [illegible]: A) 200 [illegible] B) 150 [illegible] C) 100 [illegible] D) 50 [illegible]
30.	In a single stage RC coupled CE amplifier, phase shift at lower 3-dB frequency is – A) 0 B) 135° C) 180° D) 225°	[illegible] (CE) [illegible] (RC) [illegible], [illegible] 3-dB [illegible] – A) 0 B) 135° C) 180° D) 225°
31.	FET phase-shift oscillator uses – A) Voltage Series feedback B) Voltage Shunt feedback C) Current Series feedback D) Current Shunt feedback	[illegible] (FET) [illegible] ____ [illegible] – A) [illegible] B) [illegible] C) [illegible] D) [illegible]
32.	The 6V Zener diode as shown in the circuit below has zero Zener resistance and a knee current of 5 mA. Then what is the minimum value of R so that the voltage across it does not fall below 6 V?  A) 1200 Ohms B) 80 Ohms C) 60 Ohms D) 40 Ohms	[illegible] 6V [illegible] 5 mA [illegible] R [illegible] 6 V [illegible]?  A) 1200 [illegible] B) 80 [illegible] C) 60 [illegible] D) 40 [illegible]

35.	A lead compensator network includes a parallel combination of R and C in the feed forward path. If the transfer function of the compensator is G(S) = (s+2)/(s+4), the value of RC is- A) 2 B) 1 C) 0.25 D) 0.5	G(S)=(s+2)/(s+4) , RC A) 2 B) 1 C) 0.25 D) 0.5
36.	Which of the following statements is correct for a system with gain margin close to unity or a phase margin close to zero? A) The system is relatively stable B) The system is highly stable C) The system is highly oscillatory D) None of the above	? A) B) C) D)
37.	Which technique gives quick transient and stability response? A) Root locus B) Bode C) Nyquist D) Nichols	? A) B) C) D)
38.	By increasing impurity content in the metal alloy, the residual resistivity always- A)Decreases B)Increases C)Remains constant D)Becomes temperature independent	- A) B) C) D)
39.	Electron occupying the ground state is at its: - A)Lowest Energy Level B)Fermi Level C)Highest Energy Level D)Zero total energy Level	_____ A) B) C) D)
40.	For an FM receiver with an input signal-to noise ratio for 29 dB, a noise figure of 4 dB and an FM improvement factor of 16 dB, the pre-detection and post-detection signal to-noise ratios are: A) 30 dB and 41 dB B)30 dB and 49 dB C)25 dB and 49 dB D)25 dB and 41 dB	29 , 4 16 , - _____: A) 30 41 B) 30 49 C) 25 49 D) 25 41
41.	Noise is added to a signal in a communication system A)At the receiving end B)At transmitting antenna C)In the channel D)During regeneration of the information	
42.	The analog signal m(t) is given below m(t) = 4cos100πt + 8sin200πt + cos300πt, the Nyquist sampling rate will be: A)1/100 B)1/200 C)1/300 D) 1/600	m(t) = 4cos100πt + 8sin200πt + cos300πt, : A) 1/100 B) 1/200 C) 1/300 D) 1/600

	C) An integrator D) A Voltage-to-frequency converter	C) [illegible] D) [illegible]
45.	Range of frequencies allotted for commercial VHF TV broadcast is- A) (470 - 2300) MHz B) (470 - 2300) kHz C) (47 - 230) MHz D) (47 - 230) kHz	[illegible] – A) (470 – 2300) [illegible] B) (470 – 2300) [illegible] C) (47 – 230) [illegible] D) (47 – 230) [illegible]
46.	If an FM wave is represented by the equation $e= 10 \sin (9x\ 10^{8} t + 4 \sin 1500\ t)$, then what is the carrier frequency? A) 127.32 MHz B) 200.00 MHz C) 286.62 MHz D) 143.31 MHz	[illegible] $e= 10 \sin (9x\ 10^{8} t + 4 \sin 1500\ t)$ [illegible]? A) 127.32 [illegible] B) 200.00 [illegible] C) 286.62 [illegible] D) 143.31 [illegible]
47.	The process of assigning a discrete value from a prescribed set of a finite numbers of such discrete values to each one of the sample values of the message signal, is called : A) Filtering B) Noise removal C) Decoding D) Quantization	[illegible]: A) [illegible] B) [illegible] C) [illegible] D) [illegible]
48.	How many bits are required to encode 64 level PCM? A) 7 B) 6 C) 5 D) 4	64 [illegible]? A) 7 B) 6 C) 5 D) 4
49.	Bandwidth is determined by the minimum pulse width in which of the following- A) PPM B) PDM C) QAM D) All of these	[illegible] – A) [illegible] B) [illegible] C) [illegible] D) [illegible]
50.	The electric transmission of a document at a distant place via telephone line is called – A) Modem B) Radar C) Fax D) None of these	[illegible]: A) [illegible] B) [illegible] C) [illegible] D) [illegible]
51.	In optical communication, wavelength 1550 nm is used nowadays. What is the possible reason? A) Dispersion is very low B) Loss is very low C) WDM is feasible D) Optical amplification is feasible	[illegible] 1550 nm [illegible]? A) [illegible] B) [illegible] C) [illegible] D) [illegible]
52.	Which type of fiber optic cable has/have its/their core with the size of about 480 µm to 980 µm & made up of polymethylmethacrylate (PMMA)? A) Glass fiber optic cable B) Plastic fiber optic cable C) Plastic clad silica fiber optic cable D) All of the above	[illegible] 480 µm [illegible] 980 µm [illegible] (PMMA) [illegible]? A) [illegible] B) [illegible] C) [illegible] D) [illegible]

	B) High power oscillator C) Low gain amplifier D) Not an oscillator	C) [illegible] D) [illegible]
55.	The Poynting vector measures: A) Power B) Energy C) Energy Density D) Power Density	[illegible]: A) [illegible] B) [illegible] C) [illegible] D) [illegible]
56.	Which one of the following modes has the highest cut-off wavelength in a rectangular waveguide? A) TM_{11} B) TM_{01} C) TE_{01} D) TE_{10}	[illegible]? A) TM_{11} B) TM_{01} C) TE_{01} D) TE_{10}
57.	If the maximum and minimum voltages on a transmission line are 4V and 2V, respectively for a typical load VSWR is: A) 1.0 B) 0.5 C) 2.0 D) 4.0	[illegible] 4V [illegible] 2V [illegible] (VSWR) [illegible]: A) 1.0 B) 0.5 C) 2.0 D) 4.0
58.	An antenna above its critical frequency is- A) Resistive B) Capacitive C) Inductive D) Any of the above	[illegible] ________ [illegible]- A) [illegible] B) [illegible] C) [illegible] D) [illegible]
59.	IEEE has defined the specifications for a wireless LAN, called________, which covers the physical and data link layers. A) IEEE 802.3 B) IEEE 802.5 C) IEEE 802.11 D) IEEE 802.2	[illegible] ______________ [illegible] A) [illegible] 802.3 B) [illegible] 802.5 C) [illegible] 802.11 D) [illegible] 802.2
60.	Which of the following is true regarding the VLANs? A) You must have at least two VLANs defined in every Cisco switched network. B) All VLANs are configured at the fastest switch and, by default, propagate this information to all other switches. C) You should not have more than 10 switches in the same VTP domain. D) VTP is used to send VLAN information to switches in a configured VTP domain.	[illegible]? A) [illegible] B) [illegible] C) [illegible] 10 [illegible] D) [illegible]
61.	Which of the following is wrong example of Network Layer? A) Internet Protocol (IP) – ARPANET B) X.25 Packet Level Protocol (PLP)-ISO C) Source routing and domain naming-USENet D) X.25 level 2-ISO	[illegible]? A) [illegible] ([illegible]) – ARPANET B) X.25 [illegible] (PLP) -ISO C) [illegible]-USENet D) X.25 [illegible] 2-ISO

	D) The broadcast address of the subnet is 10.16.3.241 255.255.254.0.	
63.	The network address of 172.16.0.0/19 provides how many subnets and hosts? A) 7 subnets, 30 hosts each B) 8 subnets, 8,190 hosts each C) 8 subnets, 2,046 hosts each D) 7 subnets, 2,046 hosts each	172.16.0.0/19 [illegible]? A) 7 [illegible], 30 [illegible] B) 8 [illegible], 8,190 [illegible] C) 8 [illegible], 2,046 [illegible] D) 7 [illegible], 2,046 [illegible]
64.	Which of the following is true regarding access lists applied to an interface? A) You can place as many access lists as you want on any interface until you run out of memory. B) You can apply only one access list on any interface. C) One access list may be configured, per direction, for each layer 3 protocol configured on an interface. D) You can apply two access lists to any interface.	[illegible]? A) [illegible] B) [illegible] C) [illegible] 3 [illegible] D) [illegible]
65.	Which of the following is not a layer in the TCP/IP model? A) Application B) Session C) Transport D) Internet	[illegible] / [illegible]? A) [illegible] B) [illegible] C) [illegible] D) [illegible]
66.	Which statement about IPv6 addresses is true? A) An IPv6 address is 128 bits long, represented in hexadecimal. B) An IPv6 address is 32 bits long, represented in hexadecimal. C) An IPv4 address is 128 bits long, represented in decimal. D) An IPv6 address is 32 bits long, represented in decimal.	[illegible]6 [illegible]? A) [illegible]6 [illegible] 128 [illegible] B) [illegible]6 [illegible] 32 [illegible] C) [illegible]6 [illegible] 128 [illegible] D) [illegible]6 [illegible] 32 [illegible]
67.	PSTN stands for _________ A) Personal switched telephone network B) Personal switched telephone node C) Public switched telephone node D) Public switched telephone network	[illegible] ____________ A) [illegible] B) [illegible] C) [illegible] D) [illegible]
68.	In telephone systems, load is expressed in the unit of- A)Bells B) decibels C)erlangs D) watts	[illegible]- A) [illegible] B) [illegible] C) [illegible] D) [illegible]
69.	In which frequency range do the cordless phones mostly work? A) 88-108 MHz B)43-50 MHz C)540-1600 kHz D)200-540 kHz	[illegible]? A) 88-108 [illegible] B) 43-50 [illegible] C) 540-1600 [illegible] D) 200-540 [illegible]

	B.Saubhagya Scheme C. Atal Bhujal Yojana D. National LED Programme	B. □□□□□□ □□□□□ C. □□□ □□□ □□□□□ D. □□'□□ □□□□□ □□□T □
2	Which among the following is not a Tiger reserve? A. Pench B. Kanha C. Bhandhavgarh D. Palamu	□□□□□□□ □ő □□ □□□□□ □□□□□ □□□□ □□□ □? A. □ő □ B. □□5□ C. □□□□□□ D. □□□□
3	Who won Five international gold medals in just three weeks in 2019? A. Sakshi Malik B. Hima Das C. Deepika Kumari D. P V Sindhu	2019 □ő □□ □□ □□□ □□□□ □ő □□□ □□□□□'□□ 4□□ □□□□□ □□□□□?
4	What is MPATGM? A. India's indigenous anti-tank missile B. India's Advanced Multi-role Combat Aircraft C. Self Propelled Howitzer manufactured by L&T D. None of the above	MPATGM □□ □? A. □□□□ □□ 4□□ □□ □□□ □□ □□□□□□ B. □□□□ □□ □ʉ □ 5□□□□□ □□□□ □□□□□- C. □□ □□ □□ □□□□ □□□□□ □□□ə □□□□ ლ □□□□□□ D. □□□□4 □ő □□ □□□ □□□
5	Which of the following schemes aims to transform India into a digitally empowered society and knowledge economy? A. Digital India B. Skill India C. Uddan Scheme D. Startup India	□□□□□□□ □ő □□ □□□ □□ □□□□□ □□□□ □□ □□□□□□ V□□□4 □□□□ □□ y□ □□D□3□ □ő □□□□□ □□ □k □□□□□?
6	What is the position of India in the World Bank's ease of doing business 2020 report? A. 63rd B.77th C.79th D. 62nd	□ʷ □□ □□ 2020 □□ □□ □□ □□□ □□□□□□ □□□□ □ő □□□ 3□□ □□ □?
7	Which of the following schemes aims to promote infrastructure development in educational institutions? A. HRIDAY B. PRASAD C.RISE D. NESIDS	□□□□□□□ □ő □□ □□□ □□ □□□□□ □□+□ □3□□□□ □ő □□□□□□ô □ □□□□□ □□ □□□□□ □□ □□ □?
8	Which of the following is considered as India's coal capital? A. Singrauli B.Talchar C. Dhanbad D. Korba	□□□□□□□ □ő □□ □□□□ □□□□ □□ □□□□□ □□□□□□ □□□□?
9	*Dhokra* craft and *bhitti chitra* are the arts and craft in which of the following states? A. Jharkhand B. Chattisgarh C. Nagaland D. Mizoram	□□□□□□□ □□ □□ □□□ □□Ù □ő □□□□□ □□в □□ □KT □□□ □□ □□в □?
10	Which of the following states has an Elephant Festival which includes a tug-of-war between humans and elephants? A.Kerala B.Rajasthan C.Tamil Nadu D. Andhra Pradesh	□□□□□□□ □ő □□ □□□ □□Ù □ő □□□□ □□□T□ □□□□□ □□ □□□□ □ő □□□□ □□ □□□□□□ □□ □□□ □4□□□□ □□□□ □?
11	Which of the following states does not fall under Western Ghat? A.Goa B. Maharashtra C.Karnataka D. Gujrat	□□□□□□□ □ő □□ □□□ □□ □□Ù □□ч□ □□□ □□ □□□□□□□ □□□ □?

14	Which of the following cricket player scored three double centuries in ODI cricket history? A. Rohit Sharma B. Virat Kohli C. Sachin Tendulkar D. Ravi Shastri	
15	India is planning satellite surveillance of ships with which of the following country? A. France B. USA C. Russia D. Sri Lanka	
16	Which is the next number in the given series? 6, 15, 36, 75, ? A. 231 B. 138 C. 214 D. 216	6, 15, 36, 75, ? A. 231 B. 138 C. 214 D. 216
17	The average age of a class of 40 students is 12 years. If the teacher's age is also included, the average age increases by one year. The teacher's age is : A. 52 years B. 53 years C.51 years D. 54 years	
18	A merchant sold an article for Rs 75 at a profit percent equal to his cost price. The cost price of the article was A. Rs 45 B.Rs 50 C.Rs 54 D. Rs 60	
19	Zinc and copper are in the ratio of 5 : 3 in 200 g of an alloy. how much grams of copper be added to make the ratio as 3:5? A. 133 1/3 B. 1/200 C. 72 D. 66	A. 133 1/3 B. 1/200 C. 72 D. 66
20	A, B and C working alone, can do a piece of work in 11 days, 20 days and 55 days, respectively. How soon can the work be done if A is assisted by B and C on alternate days? A. 7 days B. 8 days C. 9 days D. 10 days	
21	Seven men can complete a piece of work in 12 days. How many additional men will be required to complete double the work in 8 days? A. 28 B. 21 C.14 D. 7	A. 28 B. 21 C. 14 D. 7
22	A train of length 150 m takes 40.5 seconds to cross a tunnel of length 300 m. The speed of the train (in kmph) is A. 13.33 B. 26.67 C. 40 D. 400	A. 13.33 B. 26.67 C. 40 D. 400
23	A goes on a picnic trip and meets a women B who is the sister of A's wife. how is B related to A? A. Sister B. Sister-in-law C. Brother D. Brother-in-law	
24	Which fraction is the largest? A. 1/2 B. 4/5 C. 5/8 D. 7/10	A. 1/2 B. 4/5 C. 5/8 D. 7/10

	price of 20 books, the loss per cent is A. 16 B. 20 C. 24 D. 25	A. 16 B. 20 C. 24 D. 25
28	If A and B together can complete a piece of work in 15 days, and B alone in 20 days. In how many days can A alone complete the work? A. 60 B. 45 C. 40 D. 30	A. 60 B. 45 C. 40 D. 30
29	What is 5% of 50% of 500? A. 12.5 B. 25 C. 1.25 D. 6.25	A. 12.5 B. 25 C. 1.25 D. 6.25
30	Ram's salary is increased from Rs 630 to Rs 700. find the increase percent A. 10 1/9 % B. 9 1/9 % C. 11 1/9 % D. 12 1/9 %	A. 10 1/9 % B. 9 1/9 % C. 11 1/9 % D. 12 1/9 %