GENERAL KNOWLEDGE INFORMATION

1. Which of the foll	owing is not a	valid MS	Power P	oint View

- A. Normal View
- B. Notes Page
- C. Reading View
- D. Slide Show

2. Who is the Current Federal Interior Minister of Pakistan?

- A. Pervez Khattak
- B. Shafqat Mahmood
- C. Ijaz ahmed shah
- D. Shehryar Khan Afridi

3. On 15th August, 1947, Qauid-e-Azam took oath as the first of Pakistan.

- A. President
- B. Prime Minister
- C. Chief Justice
- D. Governor General

4. Which key is used to move the cursor to the beginning of line?

- A. Home
- B. Page up
- C. Left Arrow Key
- D. Up Arrow Key
- E. F1

5. If we type incorrect spelling of a word in MS Word, which of the following option will correct the spellings of words document automatically?

- A. Spelling and Grammar
- B. Auto Correct
- C. Auto Format
- D. Thesaurus

6. Allahabad session was held in 1930 by:

- A. Congress
- B. Simon Commission
- C. All India Muslim League
- D. Peoples Party

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C. Insert D. Help
D. Help 8. In MS Excel if we want to add a mathematical symbol which cannot be typed through keyboard, which option will be used?
A. Insert => Special Character B. Insert => Symbol C. View => Special Character
D. View => Symbol 9. Who is the Current Federal Minister of Parliamentary Affairs?
A. Noor-ul-Haq Qadri B. Shafqat Mahmood C. Muhmmad Azam Swati
D. Ali Muhammad Khan
D. Ali Muhammad Khan 10. Which of the following is used to edit a chart in MS Excel?
A. Drag the chart B. Right Click on the chart C. Left click on the chart D. Double click on the chart
11. Ethics is a system of:
A. Values B. Norms C. Principles D. Rules
12. To open an existing presentation in MS Power Point which will be the right choice?
A. Choose File => New B. Press Ctrl + N C. Press Ctrl + O D. Choose View => New
13. The desert in the Bahawalpur district in Punjab is known as desert.
A. Cholistan B. Tharparkar C. Nara D. Thal
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7. Which menu should we used, if we want to add Clip Art?

A. File
B. View
C. Insert
D. Help

	Α.	the following is not a valid MS Office Document? .docx
	В.	
1000000	C.	
	D.	
15. Who	-	kistan came into being, at that time Pakistan had provinces.
	A.	04
	В.	05
	C. D.	06
16 The		
16. The		driving force behind the creation of Pakistan is:
		Hindu co-existence
	B.	Islamic ideology
		Hinduism
	D.	Hindu-Muslim Unity
	man Qur	y times, the word 'Salat' (prayer) is mentioned in the an?
	Α.	700 times
	B. 2	800 times
	C. 9	900 times
	D. 1	1000 times

- 18. If in the transfer function of a system, there is present a zero in the mirror image position for every pole in the LHS half nice. If in the transfer function of a system, there is present a zero in the mirror image position for every pole in the LHS half plane,
- then the system is called:

- A. Minimum phase system B. Non-minimum phase system
- C. All pass systems
- 19. Zeros are the complex frequencies of a transfer function where the
- response becomes:
 - A. Infinite
 - B. Zero
 - C. Oscillatory
 - D. Exponentially decaying
- 20. When a control signal is required to have a power level higher than the capability of linear electronic amplifiers, which of the following is preferred?
 - A. Amplidyne
 - B. AC servomotor
 - C. AC tachometer
 - D. Metadyne
 - 21. Transfer function of the control system depends on:
 - A. System parameters alone
 - B. Nature of the input
 - C. Initial conditions of input and output
 - D. Nature of the output
 - 22. For a transfer function H(s) = P(s) / Q(s), where P(s) and Q(s)are polynomials in s. Then;
 - A. The degree of P (s) is always greater than the degree of
 - B. The degree of P (s) and Q (s) are same
 - C. Degree of P(s) is independent of degree of Q (s)
 - D. Maximum degree of P (s) and Q (s) differ at most by one
 - 23. Slope of asymptote in Bode plot of 2nd order system is per octave.
 - A. 18 dB
 - B. 12 dB
 - C. 06 dB
 - D. 03 dB

- 24. Which of the following control systems provides good performance if offset is to be avoided? A. Proportional action B. Proportional plus integral action C. Proportional plus differential action D. Proportional plus integral action plus differential action 25. For a type I system, the position error arises at steady state when there is a: A. Constant acceleration input B. Step displacement input Ramp or velocity input

 - D. Unit parabolic input
- 26. The device that can act as a complete electronic circuit is:
 - A. Zener diode
 - B. Junction diode
 - C. Integrated circuit'
 - D. Junction transistor
- 27. A common emitter amplifier has a voltage gain of 50, an input impedance of 100 ohms and an: output impedance of 200 ohms. The power gain of the amplifier is:
 - A. 1250
 - B. 500
 - 100 C.
 - D. 50
 - 2000 E.
- 28. The characteristic of a thyristor closely resemble to the characteristics of:
 - A. PN-junction
 - B. Constant voltage source
 - C. Constant current source
 - D. Thyratron gas tube
- 29. What is the advantage of class A operation of an amplifier?
 - A. Its low distortion
 - B. Its high gain
 - C. Its high efficiency
 - D. Its high adeptness

	7	3
A. Electric bulb		
B. Transformer		
C. SCR D. Loudspeaker		
31. A tangent galvanometer is:		3
A. An absolute instrument		
B. A secondary instrument C. A recording instrument		
D. An integrating instrument		
32. An N-type crystal is:	1	- 1
A. Neutral		
B. Negatively charge		
C. Positively charged		
D. Insufficient Information		
33. A device which converts mechanical energy int is called;	o electrical energy	
A. Electric generator	a Proportion of the last	
B. Transformer		
C. Mechanical device		
D. Amplifier		
34. The internal voltage drop in the case of silicon of	diodes is around.	
A. 2 to 5 volts	around;	
B. 0.6 to 0.7 volts		
C. 5 to 10 volts		
D. 10 to 20 volts		
35. The rotating part of a DC generator is knows is:		ı
A. Pole		П
B. Stator		ш
C. Commutator	the same of the sa	П
I D. Armatuu		Ш
36. Every chemical elemants		Ш
its: element has its own unique		Ш
36. Every chemical element has its own unique type A. Molecule B. Electron	of particle, called	
B. Electron	called	ш
C. Proton		ш
D. Atom		ш
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A	starteiral angraw
8.	Electrostatic field intensity
D.	Average number of holes
ng. The pati	ential barrier in germanium p-m junction is:
	0.3 V
17	0.7 V
	IV
D.	0.5 V
39. A solid s	state detector mainly consists of a
Δ.	mit Kuda
	Silicon crystal
C	Transistor
D.	Germanium crystal
40. The serie	es-parallel combination of solar cells is known as:
	Photo-combination cell
	Photoelectric cell
	Photovoltaic array
	Combination diode
41 A hinary	digital system deal with quantities or variables w
	discrete values or states.
	04
	03
	02
	05
E.	06
42. The rippl	e factor is for a half wave rectified s
wave.	
/ A.	1.65
	1.45
C	1.21
D	1.00
42 100	1.00
. Who disc	overed the thermionic emission?
774	Gamoure
٥,	Leader
	Edison

В	. Energy . Mass . Charge
46. If the	speed of a shunt motor is to be controlled between zero and al running speed N, the most practical way to achieve this
would	d be to insert a resistance of suitable value in:
	A. Parallel with the field B. Series with the field C. Parallel with the armature D. Series with the armature
47. A cha a ma	rged body moving along a circle in a magnetic field B= 10 ⁻² T, ass m= 10 ⁵ kg, velocity v= 1 m/s, and charge q= 10 ⁷ coulomb. t is the radius of its circular track?
	A. 0.1 m B. 10 m C. 100 m D. 1.0 m
	urrent generated when a conductor moves across a magnetic
C	A. Active emf B. Effective emf C. Optimum emf C. Induced emf
49. Two co connec the:	ils having equal resistances, but different inductances are cted in series. The time constant of the series combination is
В.	Average of the time constants of the individual
	sometric mean of the time constant idual coils
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44. In the FET, current flows along a semiconductor path called:

45. Lenz's law is a statement of law of conservation of can be conveniently applied to the circuits involving induced

A. Channel B. Drain C. Source D. Junction

currents.

- 50. Permeance is the reciprocal of:
 - Flux density
 - B. Resistance
 - C. Ampere-turns
 - D. Reluctance

at

- 51. A DC shunt motor running at rated load and speed with rated supply voltage. If the supply voltage is halved, then the speed of

 - A. Slightly more than the rated speed B. Slightly less than the rated speed

 - C. Half of the rated speed
 D. Double of the rated speed
- 52. Which of the following is NOT an integrating instrument?
 - A. Ampere-hour meter
 - B. Watt-hour meter
 - C. Voltmeter
 - D. Both A and B
- 53. The main reason for the connecting of a pulse transformer at the output stage of the thyristor triggering circuit is to:
 - A. Amplify the power of the triggering pulse
 - B. Provide electrical isolation
 - C. Reduce the turn on time of thyristor
 - D. Avoid spurious triggering of the thyristor due to noise
- 54. One electron is moving in electric and magnetic fields. It will gain energy from:
 - A. Magnetic field
 - B. Electric field
 - C. Both A and B
 - D. Insufficient Information
- 55. The function of the starter for a dc motor is:
 - A. To limit the starting current
 - B. To limit the starting voltage
 - C. To increase field resistance
 - D. To reduce armature resistance

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	ery consists of 44 2-V cells, each with an internal resistance ery consists of 64 2-V cells, each with an internal resistance ery consists of 64 A 2-V cells, each with an internal resistance ery consists of 64 A 2-V cells, each with an internal resistance	
Γ	ery consists of 44 2-V cells, each with an internal resistance of 2.0. The voltage of each cell has fallen to 1.8V. It is a 2.0. The voltage the battery at a constant current of 4 A constant to charge the battery at a constant current of 4 A	
56. A batt	ery consists of 44 2 Ω. The voltage of each cell has fallen to 1.8V. It is 2 Ω. The voltage of each cell has fallen to 1.8V. It is 2 Ω. The voltage the battery at a constant current of 4 A rement to charge the battery at a constant current of 4 A remember with an internal resistance of 2 Ω. The applied	
010.4	ement to charge the beliefance of 2 \Omega. The applied	
from a	charger with an interment of charge is:	
voltag	a charger with an internal resistance is:	
Δ.	135.15 V	
R	163.43 V	
C.	108.32 V	
D.	120.67 V	- 1
E.	130.33 V	-
57 The ratio	o of starting torque to full load torque is minimum in:	
Α.	Shunt motor Series motor	
В.	Differential compound motor	
C.	Cumulative compound motor	
58. Photons	always propagate with speed c, but light comes into view	
to trave	at a speed diverse from c in an opaque medium, we can	
explain	this fact by in medium by introducing a	
phase c	hange upon re-radiation.	
	Electron oscillators	
	Discharge tube	
	Cathode rays	
D.	Electromagnetic rays	
59. Frog-leg	winding is:	
Α.	Same as simplex winding	
	Same as duplex winding	
C.	Combined lap and wave winding on a single rotor	
D.	Duplex wave winding on a single rotor	
	periodic table, semi-conductors belong to:	
A.	Third group	
8.	Fifty group	
C.	Fourth group	
D.	First group	
61 In a DC	an medicine south	
the box	machine without interpoles, to get improved commutation,	
the bru	silic angle must be:	- 4
A.	Varies with change in load	
	Kept constant	
C	Zero degree	-
0	100 degrees	
, 50,	200 degrees	
10 1000	R ENGINEER ELECTRICAL (BPS-17)-BLUE-210919	
13-103/-	K ENGINEER ELECTRICAL (RDS-17)	

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68. Commutators of 220 V DC generator have brushes which are generally made of:

- A. Copper
- B. Electro graphite
- C. Graphite copper
- D. Carbon copper

69. Power factor of electric bulb is:

- A. Zero
- B. Lagging
- C. Leading
- D. Unity
- 70. When a number of two port networks are connected in cascade, the individual:
 - A. H-matrices are multiplied
 - B. Ysc matrices are added
 - C. Zoc matrices are added
 - D. Chain matrices are multiplied

71. In hot wire instruments the sensing wire is made of:

- A. Copper
- B. Silver
- C. Platinum-iridium
- D. Copper-nickel
- 72. The direction of the induced e.m.f. during electromagnetic induction can be determined by making use of:
 - A. Lenz's law
 - B. Faraday's law
 - C. Ampere's law
 - D. Laplace law

73. In an inductance A.C. circuit, the current:

- A. Lags the voltage
- B. Leads the voltage
- C. Is in phase with the voltage
- D. Both A and B

74. Capacitive susceptance is expressed in terms of:

- A. Farads
- B. Siemens
- C. Micro-farads
- D. Ohms

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Chargest to 30 D, the campastance was an as an assessment of the contract of t B. DE-22 W. (C. 45B3BW) ID. 265 (5 W) E. 455/41W 76. If the length of a one side of square is increased by 199, make A. diennesses by 20% E. discreases by 40% C. memalins the same D. increases by 1/0% 77. A bag containing 7 blue balls and 14 red balls. If one ball is drawn at a random from bag, what is the probability that the ball is blue? A. 1/7 8. 1/3 C. 1/2 D. 2/3 78. (3×0.3×0.03×0.003×30) A. 0.0000243 8, 0.000243 C. 0.00243 D. 0.0243 79. The sum of three numbers is 136. If the ratio between first and second be 2:3 and that between second and third is 5:3, then the second number is: A. 40 B. 48 C. 72 80. If "n" varies directly as "m", and "n" is 3 when "m" is 24, then what is the value of "n" when "m" is 11? A. 1.375 B. 1.775 C. 1.95

- 81. The impedance value of generator is 0.2pu on a base value of 11KV, SOMVA. The impedance value for a base value of 22 KV, 100 MVA
 - A. O.Zpu
 - B. 2.4pu
 - C. 0.4pu
 - D. 0.15pu
- 82. A lightning arrester connected the line and earth in a power system:
 - A. Reflects back travelling waves approaching it
 - B. Suppress high frequency oscillations in the line
 - C. Protects transmission line against direct lightning stroke
 D. Protects terminal equipment against travelling surge
- 83. In frequency modulation, noise components which affect the amplitude can be eliminated using:
 - A. a differentiator
 - B. an oscillator
 - C. an fm limiter circuit
 D. a mixer

 - E. an rf amplifier
 - 84. Cost of operation of which of the following plants is least?
 - A. Gas turbine plant
 - B. Thermal power plant
 - C. Nuclear power plant
 - D. Hydroelectric plant
 - 85. The effect of ice deposition on the conductor is:
 - A. Increased skin effect
 - B. Reduced corona losses
 - C. Reduced sags
 - D. Increased weight
- 86. The protection against direct lightening strokes and high voltage steep waves is provided by:
 - A. Earthing of neutral
 - B. Lightening arresters
 - C. Ground wires
 - D. Lightening arresters and ground wires

ay which of the following directly affects the air standard or TOTOUR RESIDE Comprossion ratio as in power plants cooling towers are used to:

- cost exhaust steam. con repeated steam 6
- COM FOOD WATER

com condenser outlet water

so saw effect is proportional to which of the following?

- plameter of conductor
- (diameter of conductor)1/2 160
- diameter of conductoryz
- (diameter of conductor)3

on the capacitor switching is easily done with:

- Vacuum circuit breaker A.
- A. bil circuit breaker
- t. Air blast circuit breaker

51. The characteristic impedance of a transmission line depends upon

- A: Geometrical configuration of the conductors
- B. Conductivity of the material
- Surface treatment of the conductors
- Shape of the conductors

92. A short transmission line has equivalent circuit consisting of:

- Series inductance L and shunt capacitance G
- B. Series resistance R and shunt capacitance G
- Series resistance R and shunt capacitance C
- Series resistance R and series inductance L

93. Shunt capacitance is usually neglected in the analysis of:

- MI Short transmission lines
- Bi Medium as well as long transmission lines
- 6. Long transmission lines

b. Medium transmission lines

- 94. Super-heated steam is Movays;
 - At a pressure more than the cooler steam pressure At a temperature higher than the saturation temperature
 - corresponding to a steam pressure
 - At a pressure less than the maximum cycle pressure
 - D. Separated from water particles before being supplied to
 - the turbine
- as. Which of the following are linked by transmission lines?
 - service points to consumer premises
 - Distribution transformer to consumer premises
 - Generating station to receiving and station B.
 - Receiving and station to distribution transformer 60
 - D.
- 96. A load curve is a plot of:
 - Load versus generation capacity
 - B. Load versus current
 - C. Load versus time
 - D. Load versus cost of power
- 97. As compared to steam at the entry to the turbine, which of the following will be larger at exit?
 - A. Specific volume
 - B. Pressure
 - C. Flow rate
 - D. Specific enthalpy
 - 98. Total load transmitted a 3 phase transmission line is 10,000 kVA at 0.8 power factor lagging. The I'R losses are 900 kW. The efficiency of transmission line is:
 - A. 60%
 - B. 96%
 - 0, 90%
 - D. 99%
- 99. In high voltage transmission lines the top most conductors is:
 - A. R-phase conductor
 - 8. Y-phase conductor
 - C. B-phase conductor
 - D. Earth conductor