

NTDC Test 2021

Junior Engineer BS-17
GK-Part

1-Liaqat ali khan joined muslim league

Ans: 1923

2-Quaid milat title was given to

Ans: Liaqat ali khan

3-Cherry is produced/cultivated in ?

Ans: Quetta?

4-Before Partition of Pakistan NA session held in dhaka in march was bycotted by?

Ans: Zulfiqar ali bhutto

5-Kalma after wuzu ?

Ans: shahadat

6-Darood recitition is called

Ans: salat

7-When a person is able to judge the difference between Wrong & write then it is called?

Ans: Conscious ?

8-Kosovo is in ?

Ans: yugoslavia

9-Cultural Capital of Pakistan is?

Ans: Punjab

10-Quaid e Azam gave his fourteen points in?

Ans: 1929

11-when ethics are applied practically it is called?

Ans:

12-Quaid E Azam joined Muslim league in ?

Ans: 1913

13-Gen Ayub Khan deposed ...?

Ans: Iskankar Mirza

14-Coldest Place on Earth ?

Ans:Antarctica

15-Allah SWT will Reward Jannah for?

Ans:Good Deeds

16-Which requires complete cleanliness ?

Ans:Prayer

17-If action consequences are comes in favor rather than unfavour is called?

Ans:Right?

18-a coin is flipped 20 times what is the probability of 15 or more heads?

Ans:0.02

Technical Part

1-Unit of Potential is?

Ans; volt

2-Coal is transported in terms of?

Ans:V belts

3-Capacitance is not considered in terms of ?

Ans: short transmission lines

4-Short transmission line equivalent circuit includes?

Ans: L in series with R

5-in a parallel resonance circuit ?

Ans: voltage is maximum

6-D20 is used as.... in nuclear reactors?

Ans: Moderator

7-Moderators are used in nuclear reaction to ?

Ans: to slow down the neutrons movement

8-Error ratio in current transformer is due?

Ans:exciting current

9-Conductivity of wire depends on?

Ans:free electron density

10-Output of schmit trigger when input is sine wave?

Ans:square wave

11-When firing angle of Scr is decreased, output is?

Ans;increased

12-stepper motor is.... Which divides rotation in large number of steps?

Ans:Dc

13-Fourier series are infinite series of elementry trigonometric functions of sine and?

Ans:cosine

14-Ac compared to oscillators inverter provide ?

Ans: low frequency output

15-Skin effect is proportional to

Ans: (diameter of conductor)²

16-In order to reduce skin effect at UHF

Ans: Copper tubes with silver plating are used

17-Transmission lines link

Ans:Generating station to receiving end station

18-Surge resistance of transmission lines is about?

Ans:400

18-In high voltage transmission lines the top most conductor is?

Ans: Earth

20-The output of a solar cell is of the order of?

Ans: 1W

21-As compared to steam at entry to the turbine which of the following will be larger at exit?

Ans:Specific volume

22-Power plants using coal work closely on?

Ans:Rankine cycle

23-The air standard efficiency of diesel engine depends on?

Ans:compression ratio

24-Coking is ?

Ans:heating of coal in absence of air, driving out C0₂ and leaving residue and carbon

25-Hot wire anemometers are used to measure?

Ans:velocity of air stream

26-The letter DPDT is?

Ans:switch

27-In a radio receiver ?

Ans:mixer stage contributes most of the noise generated

28-the potential difference between two similar charges is?

Ans: Nil

29-what is CMMR?

Ans: it is ratio of differential mode to common mode

30-A copper oxide ... Allows current to flow through a meter in only one direction?

Ans: rectifier

31-Dc generators have ... On rotating shaft which convert ac into dc ?

Ans: commutator

32-In case the height of transmission tower is increased it will following effect on C and L?

Ans: line C will decrease but L will unchange

33-The no of cycles in which high speed circuit breaker complete its operation is?

Ans: 3 to 8

34-Conductors have an access of ?

Ans: free electrons

35..... is the source which gives constant voltage irrespective of current drawn through it ?

Ans: real voltage and current source

36-turn on voltage of Ge is?

Ans: 0.3 V

37-Si and Ge belong to .. In periodic table?

Ans: IVA

38-Tunnel diode is

Ans: highly doped p-n junction diode

39--Steam engine used in locomotive is?

Ans: double acting, non condensing type

40-Conductivity of a wire depends on?

Ans: electron density

41-Rate of change of collector current w.r.t rate of change of reverse saturation current is called?

Ans: transistor amplification ratio ? Stability Factor(net) ?

42-This operation is not performed on independent variables?

Ans: amplitude scaling

43-How can we get dc equivalent circuit of an amplifier?

Ans: by short circuiting capacitor? open circuit the capacitor?

44-Step up transformer is used on which side ?

Ans: generating station

45-Microprocessor 8085 has how many interrupts ?

Ans: 5

46-characteristic impedance of transmission line depends on?

Ans: Geometric Configuration

47-the peak value of power angle curve of transmission line is 50 MVA. If two lines are added parallel resulting peak value will be?

Ans: 100MVA

48-Generators have..... basic types?

Ans: 2

49-Ac motors are of two types induction and?

Ans: Synchronous

50-Stationary part of generator ?

Ans: Stator

51-which device is used to give initial field in AC synchronous generator?

Ans: dc current generator

52-precision measurement of R is generally carried out by?

Ans: bridge method

53-which of the following is not unconventional source of energy ?

Ans: nuclear

54-when a system is true for homogeneity and additive system is called?

Ans:Linear

55-piezo electric quarz are used to measure?

Ans: temperature

56-Turn on voltage of Ge?

Ans: 0.3V

57-In a substation the following equipment is not installed ?

Ans:Exciters

58- Memory locations which are used temporarily during program execution are ?

Ans:Stack Pointer

58-in square law of photo detector current is proportional to?

Ans;

59-for stability and economy we operate transmission line on?

Ans: 30 to 45 degree

60-which device not used for current measurement(not use effect of current ?

Ans;

61-after applying newton raphson we get which equation ?

Ans:

62-stator magnetic field is 120 rev per minutes and F of rotor is 50Hz what will be slip?

Ans;

63- A Quadratic Eq has solutions ?

Ans: two