

TESCO Junior Engineer / SDO (BPS-17)
Test by NTS
on 21- Sep-2019

General Knowledge Portion :

Q.1) What is the meaning of Iman-e-Mufasssal?

- A. The belief in detail
- B. The belief in brief
- C. The belief in all things
- D. The belief in uncertain things

Q.2) Zulfiqar ali bhutto was _____ in ayub cabinet

- A. Foreign Minster
- B. Defence Minster
- C. Education minister

Q.3) I _____ my work yesterday

- A. Did
- B. Does
- C. Do

Q.4) It's not true. I----- believe

- A. Do not
- B. Does
- C. Did

Q.5) Sun _____ in my bedroom Windows every morning

- A. Shine
- B. Shines
- C. Shone

Q.6) Parliment Or Majlis-e-Shoora of Pakistan

- A. Parliment, senate, President
- B. Parliment, senate, PM
- C. Parliment, senate, PM and President
- D. SENATE AND ASSEMBLY

Q.7) Joint chief of selection committee is By

- A. President
- B. PM
- C. All officers of 3 army

Q.8) Reading Darood is Called

- A. Salat
- B. Unity
- C. Faith

Q.9) Bangladesh Separated From Pakistan

- A. 14 December 1971
- B. 15 December 1971
- C. 16 December 1971
- D. 17 December 1971

Q.10) Initial budget of CPEC is

- A. 46 billion
- B. 50 billion
- C. 54 billion

Q.11) Who was the Second Governor General Of Pakistan as well as the second Prime Minister Of Pakistan

- A. Quaid e Azam Mohammad Ali Jinnah
- B. Khuwaja Nazimudin
- C. Liaqat Ali Khan
- D. Ch. Mohammad Ali

Q.12) Jannat is Reward for

- a. Good deeds
- b. Hidden deeds
- c. worse deeds
- d. bad deeds

Q.13) By right clicking on a theme applies it on which slides?

- A) Current slide
- B) first slide
- C) last slide
- D) all slides

Q.14) Style, font and color are preset in

- A) theme
- B) heading
- C) tools
- D)

Q.15) How can you edit a chart

- A) by dragging
- B) by right click
- C) by left click
- D) by double click

Q.16) Which one is not a word layout

- A) Print layout
- B) Final layout
- C) Web layout
- D) draft

Technical Portion :

Q.17) Output of PV cell is

- A. 60V
- B. 0.6V
- C. 1V
- D. None

Q.18) Due to burning of 1Kg of pure carbon with a minimum quantity of air required, the percentage of carbon dioxide in the exhaust gas would be

- A. 10%
- B. 19%
- C. 29%
- D. 39%

Q.19) In air craft using gas turbine, the cycle used is

- A. Simple
- B. Regeneration
- C. Reheating
- D. Reheating with regeneration

Q.20) Steam engine used in locomotives is

- A. Single acting, condensing type
- B. Single acting, non condensing type
- C. Double acting, condensing type
- D. Double acting, non condensing type

Q.21) A graphical representation between discharge m^3/s and time is known as

- A. Monograph
- B. Water Discharge Graph
- C. Topograph
- D. Hydrograph

Q.22) A Ash content of most of the indian coals is around

- A. 1%
- B. 5%
- C. 10%
- D. 20%

Q.23) A Power plants using coal work closely on which of the following cycle?

- A. Otto cycle
- B. Binary vapour Cycle
- C. Brayton cycle
- D. Rankine cycle

Q.24) Atomic number of germinum

- A. 48
- B. 32
- C. 34
- D. 36

Q.25) Power transformer are usually designed to have maximum efficiency at

- A. A little more than full load
- B. Near full load
- C. Half loaf
- D. Quarter load

Q.26) The magnetising current of a transformer is usually small because it has

- A. Laminated silicon steel core
- B. Small air gap
- C. No rotating part
- D. Large leakage flux

Q.27) Two Resistances 40 ohm and 60 Ohm given in Parallel.the Equivalent Resistance Will be

- A. 24 Ohm
- B. 25 Ohm
- C. 26 Ohm
- D. 27 Ohm

Q.28) Which instrument has same calibration for AC and DC Values

- A. Induction type
- B. Hot wire type
- C. Moving coil type
- D. Moving iron type

Q.29) The error ratio of current transformer is due to

- A. Exciting current
- B. Stray magnetism
- C. Corona effects
- D. Lagging power factor

Q.30) Which of the following instruments does not use the effect of current for measurement purposes?

- A. Electrostatic ammeter
- B. Hot wire ammeter
- C. Rectifier ammeter
- D. Moving coil ammeter

Q.31) Which of the following is used for the insulation losses measurement

- A. Shearing bridge
- B. Hay bridge
- C. Wein bridge
- D. Kelvin bridge

Q.32) The deflecting torque in an instrument may be produced

- A. Magnetically
- B. Electrostatically
- C. Thermally
- D. All of the above

Q.33) Damping torque in instrument is generally not produced

- A. Pneumatically
- B. Electro magnetically
- C. Electro statically
- D. By fluid friction

Q.34) The function of a field regulator for compound motors is to

- A. Control the flux
- B. Limit the armature current
- C. Demagnetize the field polarity
- D. None of the above

Q.35) Retardation test in case of shunt motors and generators is used to determine

- A. Friction losses
- B. Eddy current losses
- C. Copper losses
- D. Stray losses

Q.36) Starting resistance in a dc motor is connected in

- A. Series with the field winding
- B. Parallel with the field winding
- C. Parallel with the armature
- D. Series with the armature

Q.37) D.P.D.T is a

- A. Switch
- B. Relay
- C. Transistor
- D. None

Q.38) The function of a starter in a dc machine is to

- A. To limit the starting current
- B. Avoid armature reaction
- C. Control the speed
- D. Avoid excessive Heating

Q.39) Which of the following parts help the commutation process?

- A. Interpoles
- B. Compensating windings
- C. Poles shoes
- D. All of these

Q.40) The Yoke in a Small dc machine is made of

- A. Cast iron
- B. Cast steel
- C. Mild steel
- D. Grain oriented Steel

Q.41) Brushes for commutator for 220V dc generator are generally made of

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

Q.42) Which of the following forms an energy convertor?

- A. Piezo-electric effect
- B. Magneto-striction effect
- C. Hall Effect
- D. All of these

Q.43) A DC generator generates

- A. DC voltage
- B. AC voltage
- C. DC and AC voltage
- D. Pulsating DC

Q.44) A DC motor can be easily identified by

- A. Winding
- B. Commutator
- C. Size of conductor
- D. Yoke

Q.45) Sparking between contacts can be reduced by

- a. Inserting Resistance in a Line
- b. Inserting Reactor in a Line
- c. inserting a capacitor in series with the contacts
- d. Inserting a capacitor in parallel with the contacts

Q.46) Deuterium oxide is used in nuclear reactor as

- A. Fuel
- B. Moderator
- C. Shield
- D. Regulator

Q.47) Which type of output voltage is formed in Full wave rectifier?

- a. Pulsating DC
- b. Pulsating AC
- c. Pure DC
- d. No ripple voltage

Q.48) In order to reduce skin effect at UHF

- a. Conductors are painted
- b. conductors are anodized
- c. Copper tubes with silver plating are used
- d. Copper rods with silver plating are used

Q.49) The surge impedance of Transmission Lines is about

- a. 50 ohms
- b. 100 ohms
- c. 250 ohms
- d. 500 ohms

Q.50) Peak value of power angle curve of a transmission line is 50MVA. If two such identical lines are added in parallel the resulting peak value is _____

- A. 100MVA
- B. 25MVA
- C. 50MVA
- D. 200MVA

Q.51) A Coil is Supplied 220V and 2 Ampere Current 45 degree lagging, the Q of Coil is.....??

- A.100
- B.1
- C.25.
- D.10

Q.52) S.I Unit of time is

- a. Second
- b. Hour
- c. Minute
- d. Week
- e. Day

Q.52) If n-type region is sandwiched in between two p-type regions than the device formed is

- a) n channel- MOSFET
- b) p channel- MOSFET
- c) n-p-n Transistor
- d) p-n-p Transistor

Q.53) The actual size of resistor determines its

- a. Power rating
- b. current rating
- c. voltage rating
- d. ohmic rating

Q.54) Torque in measurement of a device is due to

- a. Deflecting Torque
- b. Controlling torque
- C. All

Q.55) In a nuclear power station moderator is used to

- a. Absorb neutrons
- b. Reduce the speed of neutrons
- c. Accelerate the speed of neutrons
- d. Stop the chain reaction

Q.56) Convert $470 \mu V$ is equal to how many mV?

- a. 0.47mV
- b. 0.047 mV
- c. 4.7mV
- d. None

Q.57) Which of the following is a Perfect insulator?

- A. Porcelain
- B. Steel
- C. Ebonite
- D. Copper

Q.58) Three amplifiers are cascaded , each have gain 30 , Then total Gain is ?

- A. 30
- b. 90
- c. 2700
- d. 27000

Q.59) Which of the following is generally not a constituent of Coal?

- A) Sulphur
- B) Hydrogen
- C) Chromium
- D) Moisture

Q.60) Parallel resonance circuit magnifies

- a. Current
- b. Voltage
- c. power
- d. All

Q.61) Steam engine used in locomotive is

- (A) Single acting condensing type
- (B) Double acting condensing type
- (C) Double acting non - condensing type
- (D) Single acting non condensing type.

Q.62) In ideal diesel cycle the working substance is

- (A) Air
- (B) Diesel
- (C) Mixture of air and diesel
- (D) Any combustible gas.

Q.63) Coking is

- (A) formation of lumps or masses of coke in boiler furnaces at high temperatures
- (B) heating of coal in absence of air, driving out CO_2 and leaving behind the residue and carbon
- (C) burning of coal in furnace
- (D) producing lumps of coal from fine powders with the help of a binder.

Q.64) The voltage of a single solar cell is

- (A) 0.5 V
- (B) 1 V
- (C) 1.1 V
- (D) 5 W.

Q.65) The output of a solar cell is of the order of

- (A) 0.1 W
- (B) 0.5 W
- (C) 1 W
- (D) 5 W.

Q.66) conductance and susceptance both parts of admittance are connected in _____ a circuit

- A-Series
- B-Series parallel
- C-Parallel
- D- Insufficient Information

Q.67) Reciprocal of Network function is

- A. Never transfer function
- B. Never immittance function
- C. Immittance function if original function is admittance
- D. Transfer function if original function is transfer function

Q.68) The direction of rotation of a Compound DC motor can be effectively reversed by interchanging

- a. Shunt Field Connections
- b. Series Field Connections
- c. Armature Connections
- d. Line Leads

Q.69) In a Compound DC motor, the shunt field winding as compared to series field winding will have

- A. More turns and smaller cross-section of wire
- B. Less turns and large cross-section of wire
- C. More turns and large cross-section of wire
- D. Less turns and smaller cross-section of wire

Q.70) Electric field lines emerge from any charge outside in

- a. One dimension
- b. Two dimension
- c. Three dimension
- d. four dimension

Q.71) In a compound motor, if series field windings are removed then the motor will

- a. It will not start
- b. It will experience vibration and noise
- c. It will start with jerk

Q.72) When the transistor is switched OFF, then current in which of the following becomes zero?

- a. Collector
 - b. Emitter
 - c. Base
 - d. All
-

Q.73) An Electron is moving parallel to a Magnetic Field. Then the force experienced by it is,

- a. Zero
- b. $e v B$
- c. $- e v B$
- d. 1

Q.74) In a permanent magnet DC motor, which of the following method of Speed control cannot be used ?

- a. Armature voltage Variation
- b. Field Voltage control
- c. Field current variation
- d. Armature current variation

Q.75) The speed of DC shunt motor supplying a load at its rated speed, its speed can be reduced by :

- a. Increasing the applied voltage
- b. Connecting an additional resistance in the armature circuit
- c. Connecting an additional resistance in the field circuit
- d. Decreasing the applied voltage

Q.76) D.C Potentiometer is an instrument to measure:

- a. Unknown E.M.F
- b. Large voltages
- c. Large Power
- d. Direct resistance

Q.77) If the lower value of 5% resistor is 209. Then what will be the Nominal Value of the resistor?

- a. 210
- b. 215
- c. 220
- d. 225
- e. 230

Q.78) A 120RJ resistor has a value of

- a. $1.2 \pm 1\%$
 - b. $12 \pm 10\%$
 - c. $120 \pm 5\%$
 - d. $1200 \pm 2\%$
-