Bengal Ham Radio Institute

**Mock Question Paper for ASOC Restricted Grade Examination**

**1)** Capacitance is measured in

1. Amperes b) watt c) Farad d) Coulombs

**2)** Frequency is a) cycles per second b) Kilo cycles

1. per second c) Cycles per minute d) cycles per hour

**3)** Line of sight propagation is the mode of communication

1. in a) LF b) HF c) MF d) VHF

**4)** The frequency of 40 Meter band in MHz is

a) 14 - 14.350 b) 7 - 7.1 c) 21 - 21.450 d) 15 - 15.400

**5)** Zener diode is used for a) Rectification b) Voltage

regulation c) Current regulation d) Switching

**6)** The UHF range is a) 30 to 300 KHz b) 300 to 3000 KHz

c) 3 to 30 GHz d) 300 to 3000 MHz

**7)** 3 resistors of 2,3 & 4 ohms are connected in series. The

voltage across the circuit is 9 V , the current drawn by 3 ohms

resistor is a) 1.5 Amps b) 27 Amps c) 1 Amp d) 3 Amps

**8)** 3 to 30 MHz band is known as a) MF b) LF c) VHF d) HF

**9)** The wavelength of a broadcast station at 1000 KHz is

a) 30 Meters b) 300 Meters c) 0.3 Meteors d) none of these

**10)** The core of power supply transformer is laminated to

a) decrease impedance b) increase impedance c) decrease eddy

current losses d) none of these

**11)** When frequency of a carrier is varied according to modulation

the result is a) frequency modulation b) amplitude modulation

c) product detection d) none of these

**12)** The quartz crystal oscillator is known for its

a) linearity b) stability c) high output d) flexibility

**13)**Resistivity of a wire depends on

1. length (B) material (C) cross section area (D) none of the above

**14)**Ampere second could be the unit of

1. (A) power (B) conductance (C) energy (D) charge

**15)**Conductance is expressed in terms of

1. (A) ohm / m (B) m / ohm (C) mho / m (D) mho

**16)** We have three resistances of values 2 Ω, 3 Ω and 6 Ω. Which of the following combination

will give an effective resistance of 4 Ω?

(A) All the three resistances in parallel

(B) 2 Ω resistance in series with parallel combination of 3 Ω and 6 Ω resistance

(C) 3 Ω resistance in series with parallel combination of 2 Ω and 6 Ω resistance

(D) 6 Ω resistance in series with parallel combination of 2 Ω and 3 Ω resistance

**17)** The element of electric heater is made of

(A) copper (B) steel (C) carbon (D) nichrome

**18)** Variable resistors are

(A)Wire wound resistors (B)Thin film resistors

(C)Thick film resistors (D)All of the above

**19)**A fuse is always installed in a circuit is

(A) Series (B) Parallel

**20)** Which consists of two plates separated by a dielectric and can store a charge?

a) Inductor b) Capacitor c) Transistor d) Relay

**21)** Radio waves of constant amplitude can be generated with

(a) FET (b) filter (c) rectifier (d) oscillator

**22)**The part of the transistor which is heavily doped to produce large number of majority carriers is

(a) emitter (b) base (c) collector (d) any of the above depending upon the nature of transistor

**23)**What does AM mean?

a) Angelo Marconi b) Anno median c) Amplitude modulation d) Amperes

**24)**Antenna used in radar is :

a) dipoles b) yagi antenna c) parabolic dishes d) None of these

**25)**One milli volt is equal to

a) 0.01volt b) 0.0001 volt c) 0.001volt d) None