

**GOVT. POLYTECHNIC, BHADRAK**

**Class Test : 1<sup>st</sup>**

**Branch: Electrical engg. Session : 2022 – 23 Semester: 3<sup>rd</sup>**

**SUB: EEM F.M = 20 Time- 20mins Date : \_\_\_\_\_**

**Name \_\_\_\_\_ Regd. No.- \_\_\_\_\_**

**All questions are compulsory.**

**Q.1 The number of semiconductor in periodic table is**

- a. 3      b. 5      c. 7      d. 13

**Q.2 According to atomic theory, the maximum number of electrons can be there in outer most orbit is**

- a. 1      b. 8      c. 18      d. any number

**Q.3 An element has atomic weight of 16 and atomic number of 8. The number of protons, neutrons and electrons are**

- a. 8, 10 and 16      b. 8, 8 and 8  
c. 2, 8 and 8      d. 2, 8 and 18

**Q.4 Materials which store electrical energy are classified as**

- a. Magnetic materials      b. Dielectric materials  
c. Insulating materials      d. None of the above

**Q.5 The weight of an atom is almost entirely due to weight of**

- a. protons and neutrons      b. protons and electrons  
c. electrons and neutrons      d. None of the above

**Q.6 Materials which provide path to the magnetic flux are classified as**

- a. Insulating materials      b. Dielectric materials  
c. Magnetic materials      d. Semiconductor materials

**Q.7 Variable resistors are**

- a. carbon resistors      b. thin film resistors  
c. either (a) or (b)      d. wire wound resistors

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Q.8 The material with lowest resistivity is

- a. constantan
- b. german silver
- c. manganin
- d. nichrome

Q.9 The most malleable, ductile low resistivity material is

- a. copper
- b. aluminium
- c. silver
- d. None of the above

Q.10 The heating elements of irons are made of

- a. copper
- b. nichrome
- c. constantan
- d. aluminium

Q.11 Thermistors possess

- a. zero resistance
- b. negative temperature coefficient of resistance
- c. positive temperature coefficient of resistance
- d. None of the above

Q.12 Which type of semiconductor is Selenium

- a. extrinsic
- b. intrinsic
- c. N-type
- d. P-type

Q.13 In a semiconductor, the hole formed is a

- a. positive charge carrier
- b. negative charge carrier
- c. either of the above
- d. None of the above

Q.14 A pure semiconductor under ordinary conditions, behaves like a

- a. conductor
- b. insulator
- c. magnetic material
- d. ferromagnetic material

Q.15 Germanium possesses

- a. 2 valence electrons
- b. 3 valence electrons
- c. 4 valence electrons
- d. 5 valence electrons

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