

- Q.34 Write different functions of concrete ingredients.  
Q.35 Write about types of foundations and their silent features.

### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain any one method in detail to find out the Bearing Capacity of Soil.  
Q.37 Explain with a neat sketch how electricity can be generated from coal in Thermal Power Plant.  
Q.38 Describe the construction and working of centralized Air Conditioner System.

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Roll No. ....      030532/105335

**2nd Sem / Branch : Food Tech., Elect.**

**Subject:- General Engineering**

Time : 3Hrs.

M.M. : 100

### SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 One atmospheric pressure is equal to  
a)  $1 \text{ kg/m}_2$       b)  $\text{kg/cm}_2$   
c)  $1 \text{ g/m}_3$       d)  $1 \text{ g/cm}_3$
- Q.2 Candela is the unit of  
a) magnetic flux  
b) intensity of the electric field  
c) luminous intensity  
d) charge
- Q.3 Maximum bearing capacity of soil is that of  
a) Fine sand      b) Sand clay mixture  
c) Soft rock      d) Coarse
- Q.4 The density of soil in SI units is expressed as  
a)  $\text{N/m}_2$       b)  $\text{N/m}_3$   
c)  $\text{kg/m}_2$       d)  $\text{kg/m}_3$
- Q.5 Which of the following is not an electrical quantity?  
a) voltage      b) current  
c) distance      d) power

- Q.6 Out of the following which is an insulating material?  
 a) Copper                      b) Gold  
 c) Silver                        d) Paper
- Q.7 The filament of an electric bulb is made of?  
 a) carbon                        b) aluminium  
 c) tungsten                      d) nickel
- Q.8 The hot molten material occurring naturally below the surface of the Earth is called:  
 a) Lava                          b) Slag  
 c) Magma                        d) Tuff
- Q.9 What is the average particle size of cement?  
 a) 15 microns                    b) 45 microns  
 c) 75 microns                    d) 100 microns
- Q.10 What is the meaning of the soundness of cement?  
 a) Ability to flow when mixed  
 b) Ability to make a ringing noise when struck  
 c) Ability to form strong and sound structure  
 d) Ability to retain volume after setting

### SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Diameter pitch is defined as \_\_\_\_\_
- Q.12 Name two types of soils.
- Q.13 Two ingredients for concrete \_\_\_\_\_ and \_\_\_\_\_
- Q.14 Unit voltage \_\_\_\_\_

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- Q.15 Write Ohm's law \_\_\_\_\_
- Q.16 What is good conductor of electricity. (True/False)
- Q.17 Write two types of timbers.
- Q.18 Write one function of earthing.
- Q.19 What is CIP?
- Q.20 Define conductors \_\_\_\_\_

### SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Write about the classification of pumps.
- Q.22 Explain four applications of centrifugal pump.
- Q.23 Give the difference between E.M.F. and the potential difference.
- Q.24 Explain the refrigeration cycle in brief.
- Q.25 Give five differences between belt drive and chain drive.
- Q.26 Discuss of laws of thermodynamics.
- Q.27 What are the different types of power transmission?
- Q.28 Explain different types of pulleys.
- Q.29 What are split air conditioners?
- Q.30 What are the various applications of electricity?
- Q.31 Differentiate single-phase and three-phase motors.
- Q.32 Write the distinction between high and low voltage distribution system.
- Q.33 Differentiate single-phase and three-phase supply.

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