

- 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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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 kg/m_2 b) kg/cm_2 ,
c) 1 g/m_3 d) 1g/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) N/m_2 b) N/m_3 ,
c) kg/m_2 d) 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. $(10 \times 1 = 10)$

- 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 _____

(2) 121126/030827/030827A/
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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. $(12 \times 5 = 60)$

- 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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