

No. of Printed Pages : 4 121126/030827/030827A  
Roll No. .... /30532/105335

**2nd Sem./ 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 Tension ratio of the belt is \_\_\_\_\_

  - Ratio of tight side to the slack side
  - Ratio of slack side to the tight side
  - Product of tight side and slack side
  - None of these

Q.2 Jockey pulley to be fitted \_\_\_\_\_

  - Near driver pulley
  - On the driven pulley
  - Between the driver and driven pulley
  - Near driven pulley

Q.3 What is the full form of DC?

  - Double Current
  - Direct Coil
  - Direct Current
  - None of the above

Q.4 M15 concrete Ratio is \_\_\_\_\_

  - 1 : 2 : 4
  - 1 : 1 : 2
  - 1 : 1.5 : 3
  - 1 : 3 : 6

Q.5 Out of the following, which one is not a source of electrical energy?

(1) 121126/030827/030827A  
/30532/105335

- a) Solar cell                    b) Battery  
c) Potentiometer                d) Generator

Q.6 A battery converts \_\_\_\_\_  
a) Electrical energy to chemical energy  
b) Chemical energy to electrical energy  
c) Mechanical energy to electrical energy  
d) Chemical energy to mechanical energy

Q.7 Which of the following type of foundation is used for the construction of building on black cotton soil?  
a) Grillage foundation  
b) Inverted arch foundation  
c) Floating foundation  
d) Mat foundation

Q.8 What is concrete?  
a) A mixture of homogenous materials  
b) A mixture of material and hydrogen  
c) A mixture of cement and hydrogen sulphide  
d) A mixture of cement, water, and aggregates

Q.9 What is full form of MCB?  
a) Miniature circuit Breaker  
b) Minature Coil Breaker  
c) Minature Circuit Board  
d) None of these

Q.10 What is full form of RCC?  
a) Reinforced Circuit Coil  
b) Reinforced Cement Coil  
c) Reinforced Cement Concrete  
d) None of these

(2) 121126/030827/030827A  
/30532/105335

## **SECTION-B**

**Note:** Objective type questions. All questions are compulsory.  $(10 \times 1 = 10)$

Q.11 What is the full form of AC?

Q.12 Convert 10 HP into watts.

Q.13 What is unit of energy?

Q.14 Define isolated footing?

Q.15 Unit of power is \_\_\_\_\_.

Q.16 A single instrument that can measure voltage and current is \_\_\_\_\_.

Q.17 Define pump?

Q.18 Define energy?

Q.19 Define ultimate Bearing capacity?

Q.20 What is soundness of cement?

## **SECTION-C**

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions.  $(12 \times 5 = 60)$

Q.21 Name various components of transmission line.

Q.22 What is the principle of refrigeration? Define 1 tonne of refrigeration?

Q.23 Explain different properties of wood.

Q.24 Mention advantages of A.C over D.C

Q.25 Mention merits and demerits of gear drive.

Q.26 Mention some important applications of electricity?

Q.27 Discuss the different methods of power transmission.

Q.28 What are factors affecting bearing capacity?

Q.29 An electrical bulb has resistance  $50\Omega$ . It is connected across 200 V supply . Find current.

(3) 121126/030827/030827A  
/30532/105335

Q.30 What do you mean by grades of cement?

Q.31 Explain the salient features of 3 phase induction motor.

Q.32 Define centrifugal pump and explain its working?

Q.33 Enlist the principal parts of an air conditioning system.

Q.34 Explain the methods of mixing of concrete.

Q.35 Explain different uses of stone as construction material.

## **SECTION-D**

**Note:** Long answer type questions. Attempt any two questions out of three questions.  $(2 \times 10 = 20)$

Q.36 Explain the working of central air conditioning system with the help of a diagram.

Q.37 Explain characteristics of and reinforcing material. Why steel is considered as best reinforcing material in concrete.

Q.38 Explain working of reciprocating pump?

(1080)

(4) 121126/030827/030827A  
/30532/105335