Q.27 Explain any five characteristics of good varnish
(CO-9)
Q.28 Write a short note on the following: (CO-10)
   a) thermosetting plastic
   b) thermo plastic
Q.29 Write any five requirements of good sound insulating material (CO-10)
Q.30 Lists any five properties of plastic (CO-10)
Q.31 List various use of Scaffolding with their suitability (CO-12)
Q.32 Give five general principles observed while Damp proofing (CO-14)
Q.33 Describe purpose of Anti-termite treatments (CO-15)
Q.34 Enlist five general fire safety requirements for building as per IS 1461-1960 (CO-16)
Q.35 What do you mean by personal protection equipment regarding safety in building construction (CO-17)

SECTION-D
Note: Long answer type questions. Attempt any two out of three questions. (2x10=20)
Q.36 Describe the concept of Soil stabilization. Enlist the name of various stabilizers. (CO-6)
Q.37 Explain in brief the classification and specification of brick as per BIS 1077 (CO-8)
Q.38 Explain difference between Pre-constructional and Post-constructional Anti-termite treatment. (CO-15)

(**Note:** Course outcome/CO is for office use only)

Branch: G.E.

Subject : Basics of Civil Engineering

Time : 3 Hrs.   M.M. : 100

SECTION-A
Note: Multiple choice Questions. All questions are compulsory (10x1=10)
(Course Outcome/CO)
Q.1 The soil which contains finest grain particles is (CO-1)
   a) Coarse sand   b) Fine sand
   c) Silt   d) Clay
Q.2 Soil is considered as (CO-2)
   a) Single phase system
   b) Two phase system
   c) Three phase system
   d) None of these
Q.3 Pile foundation is the example of (CO-7)
   a) Shallow foundation
   b) Raft foundation
   c) Deep foundation
   d) Mat foundation
Q.4 Gypsum is added in cement to control (CO-8)
   a) Initial setting time   b) Final setting time
   c) Colour   d) Bot A & B
Q.5 A bat is a portion of (CO-8)

a) Wall between facing and backing
b) Wall not exposed to weather
c) Brick cut across its width
d) None of these

Q.6 Pigments protects the steel components from (CO-9)
a) Corrosion b) Rusting
c) Erosion d) Both a & b

Q.7 PVC stands for (CO-10)
a) Polyvinyl chloride
b) Polyvinyl carbonate
c) Pure chloride
d) None of these

Q.8 A partition wall may be (CO-12)
a) Folding b) Collapsible
c) Fixed d) All of the above

Q.9 A brick laid with its length perpendicular to the face of wall is .(CO-12)
a) Course b) Stretcher
c) Header d) Closer

Q.10 DPM stands for (CO-14)
a) Damp proofing material
b) Damp proof mix
c) Damp proof member
d) Damp proof membranes

SECTION-B

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

Q.11 In engineering structures, soil is used as .... and .... material. (CO-1)

Q.12 Porosity is also known as....................? (CO-3)
Q.13 Machine foundation is subjected to..................? (CO-7)
Q.14 Final setting time of OPC cement should not be more than.................................? (CO-8)
Q.15 The constituent which provide body to oil paint is............................ (CO-9)
Q.16 Heat insulating material are used for controlling .... & .... (CO-3)
Q.17 A brick laid with its length parallel to the face of wall is called.............................. (CO-12)
Q.18 A wall built to resist Earth pressure is known as................................. (CO-12)
Q.19 At Roof Slab level over the DPC.................. are provided (CO-14)
Q.20 DDT and PHP are used in .... Termite Treatment (CO-15)

SECTION-C

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

Q.21 Describe any five necessity of studying soil engineering. (CO-1)
Q.22 Draw & define phase diagram (CO-2)
Q.23 Enlist any five factors affecting the bearing capacity of soil. (CO-4)
Q.24 Describe the concept of Shallow and Deep foundation. (CO-7)
Q.25 Distinguish between OPC and PPC (CO-8)
Q.26 Define the following terms (CO-8)
a) King closure b) Queen closure
c) Soffit d) Facing e) Backing