**Graduate Assessment Test**

**Department of Civil Engineering**

**Muslim Youth University Islamabad**

Time: 120 min Marks: 100

**Instructions** (Please read the instruction carefully)

* + Attempt all Questions, each question carries equal marks
  + Only label single correct MCQ option, multiple labeling will be graded zero
  + Any kind of writing on the answer sheet (other than labeling the choices will disqualify the student
  + No negative marking
  + Student may be provided the sheet for rough work on demand
* Scientific calculator, mobiles, laptops and any type of electronic gadgets are prohibited in the premises of the examination hall
* Any material relevant to/helpful/suspicious, w.r.t the paper, found during examination in the custody of the candidate will automatically lead to the disqualification
* The paper contains objective (80-MCQs) and 20 subjective questions, both are mandatory

**20 MCQs each from Structure, Geotech., Transportation & Water Recourses areas and 20 subjective questions from all above areas**

**MCQs**

**Q.1**

The branch of Engineering, which deals with fluid at rest or in motion is called;

A = Hydraulics B = Fluid MechanicsC **=** Applied Mechanics D = Kinematics

**Q.2**

Lines joining points of equal stress are known as;

A = Isohyets B = Isobar C = Isotherm D = Isostress

**Q.3**

The weight of a vehicle effects A = Width of lanes B = Passing sight distance C = Pavement thickness D =Extra widening

**Q.4**

As the pH, or alkalinity, of the pore solution decreases, potential for the alkali-silica reaction;

A = decreases B = remains uniform C =increases D = none of the above

**Subjective**

**Q1.** What are different types of Coarse-grained soil according to USCS system?

**Q2.** What do you by a water-cement ratio?

**Q3.** Define flexible pavement

**Q4.** What do you by an Energy line?