

## DEPARTMENT OF IRRIGATION

Dated: January 3, 2017

Thapar University, Patiala conducted the test for recruitment to vacant posts of Junior Engineers (Mechanical) in the Department of Irrigation, on December 28, 2016. The answer key for the paper was uploaded on December 29, 2016, and the objections pertaining to any of the keys were invited up to January 2, 2017. After due consultation with the experts of the specific area, none of the objections were found valid, except Question No. 72.

Candidates, who raised the objections, will receive the solution of the question through their registered Email.

**NAME OF POST: JE (Mechanical)**

### **I. QUERIES FOUND VALID AND QUESTION CANCELLED**

**Q: 72**

If the Young's modulus of elasticity of a material is equal to the modulus of rigidity of the same material, then what would be the Poisson's ratio of the material?	
A) 0	B) 0.25
C) 0.30	D) 0.50

The relation between the Young's modulus of elasticity and modulus of rigidity is

$$E = 2G(1 + \nu).$$

So the value of Poisson's ratio for  $E = G$  should be -0.5

The value was not given in the options. So the question stands cancelled.

**II. QUERIES FOR QUESTION NUMBERS 12, 14, 19, 21, 26, 28, 30, 32, 34, 42, 43, 45, 56, 58, 61, 62, 66, 67, 71, 72, 73, 75, 78, 83, 85, 88, 90, 92, 96, 97 ARE FOUND INVALID AND THE ANSWER KEY AS UPLOADED WAS FOUND TO BE CORRECT.**