# GATE 2024 Question Paper Feb 3 (Mechanical Engineering) 

## GATE General Aptitude Questions

Ques 1. What are the number of numbers possible divisible by 3 if we choose 4 numbers from the set $S=\{4,5,7,8,9\}$

Ans. 1

## GATE Core Discipline Questions

Ques 1.

, find the maximum binding energy

Ans. 9.23

Ques 2. Find the diameter of the punch, if the diameter of the blank is 20 mm ( blinking operation is going on). Given the clearance value is 0.04 mm

Ans. 20.08 mm

Ques 3. Tmin= $300 \mathrm{~K}, \mathrm{Tmax}=1200 \mathrm{~K}, \mathrm{Q}=1200 \mathrm{KJ}$. Find work done.

Ans. 900 KJ

Ques 4.

find total heat

Ans. 1620

Ques 5. A cube of the dimension ( $20^{*} 20^{*} 20$ ) is mold to sphere having diameter 20 mm and the pouring temperature both are same. What is the ratio of the solidification time of the cubical casting: spherical casting

Ans. 32/3

