## KEAM 2024 Mathematics Model Question Paper PDF 3

1. In how many different ways can the letters of the word 'BLOATING' be arranged?
2. 64 men can complete a piece of work in 40 days. In how many days can 32 men complete the same piece of work?
3. What is the area of a circle whose circumference is 1447 meters? (Use $\pi=3.14$ )
4. The ratio of the ages of a father and son is $17: 7$, respectively. Six years ago the ratio of their ages was $3: 1$, respectively. What is the son's present age?
5. What is the area of a circle whose radius is 10 meters? [Use $\pi=3.14$ ]
6. The probability that A hits a target is $1 / 3$ and the probability that B hits it is $2 / 5$. What is the probability that the target will be hit if both $A$ and $B$ shoot at it?
7. A die is rolled. If the outcome is an odd number, what is the probability that it is prime?
8. Find the value of $\tan -1(\tan 2 \pi / 3)$
9. If $\tan A=3 / 4$, prove that $\operatorname{Sin} A \operatorname{Cos} A=12 / 25$.
10. A die is thrown once. Find the probability of getting
