$$\blacktriangleright \quad f(x_i) \leq 0 \quad and \quad \sum_{i=1}^{n} f(x_i) \neq 1$$

$$\blacktriangleright \quad f(x_i) \geq 0 \quad and \quad \sum_{i=1}^{n} f(x_i) = 1 \text{ (Page 275)}$$

$$\blacktriangleright \quad f(x_i) \geq 0 \quad and \quad \sum_{i=1}^{n} f(x_i) \neq 1$$

$$\blacktriangleright \quad f(x_i) \prec 0 \quad and \quad \sum_{i=1}^{n} f(x_i) = 1$$

Question No: 8   (Marks: 1)   - Please choose one
What is the probability that a hand of five cards contains four cards of one kind?

➢ 0.0018

➢ $\dfrac{1}{2}$

➢ **0.0024 (page 253)**

Question No: 9   (Marks: 1)   - Please choose one
A rule that assigns a numerical value to each outcome in a sample space is called

➢ One to one function
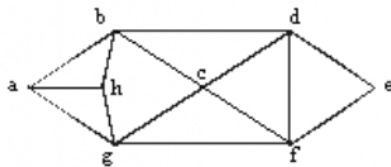➢ Conditional probability
➢ **Random variable (Page 274)**

Question No: 10   (Marks: 1)   - Please choose one
A walk that starts and ends at the same vertex is called
➢ Simple walk
➢ Circuit
➢ **Closed walk (Page 292)**

Question No: 11   (Marks: 1)   - Please choose one
The Hamiltonian circuit for the following graph is

➢ abcdefgh
➢ abefgha
➢ **abcdefgha (Page 297)**

Question No: 14   (Marks: 1)   - Please choose one
The square root of every prime number is irrational

➢ **True**
➢ False
➢ Depends on the prime number given