

# Step Academy Official

Student Name _____	Roll Num _____	Class Name <b>NEW 9TH</b>	Paper Code _____
Subject Name <b>MATHEMATICS</b>	Time Allowed <b>1 h</b>	Total Marks <b>30</b>	Exam Date _____
Exam Syllabus <b>chapter # 13</b>			

## Q1. Choose the correct answer.

1X10=10

سوال نمبر 1. چار ممکنہ جوابات میں سے درست پر دائرہ لگائیں۔

- Each element of the sample space is called:  
(A) Event واقعہ (B) Experiment تجربہ (C) Sample point نمونہ نقطہ (D) Outcomes نتائج
- An outcome which represent how many times we expect the things to be happened is called:  
(A) Outcomes نتائج (B) Favourable outcome موافق نتیجہ (C) Sample space اسپیس (D) Sample point نمونہ نقطہ
- Which one tells us how often a specific event occurs relative to the total number of frequency event or trials?  
(A) Expected frequency متوقع تعدد (B) Sum of relative frequency نسبتی تعدد کا مجموعہ (C) Relative frequency نسبتی تعدد (D) Frequency تعدد
- Estimated probability of an event occurring is also known as:  
(A) Relative frequency نسبتی تعدد (B) Expected frequency متوقع تعدد (C) Class boundaries حقیقی جماعتی حدود (D) Sum of expected frequency متوقع تعدد کا مجموعہ
- The sum of all expected frequencies is equal to the fixed number of:  
(A) Relative frequencies (B) Relative frequencies (C) Outcomes نتائج (D) Events واقعات
- The chance of occurrence of a particular event is called:  
(A) Sample space اسپیس (B) Estimated probability متوقع احتمال (C) Probability احتمال (D) Expected frequency متوقع تعدد
- An event which will probably occur. It has greater chance to occur is called:  
(A) Equally likely event مساوی ممکنہ واقعہ (B) Likely event ممکنہ واقعہ (C) Unlikely event غیر ممکنہ واقعہ (D) Certain event یقینی واقعہ
- Find out the total number of possible sample space when 4 dice are rolled:  
(A)  $6^2$  (B)  $6^3$  (C)  $6^4$  (D)  $6^6$
- While rolling a pair of dice, what will be the probability of double 2?  
(A)  $\frac{1}{6}$  (B)  $\frac{1}{3}$  (C)  $\frac{5}{6}$  (D)  $\frac{1}{36}$
- A card is chosen from a pack of 52 playing cards, find the probability of getting no jack and king?  
(A)  $\frac{2}{13}$  (B)  $\frac{11}{13}$  (C)  $\frac{2}{52}$  (D)  $\frac{11}{52}$

## Q2. Write answers of the following questions.

2X10=20

سوال نمبر 2. مندرجہ ذیل سوالات کے جوابات تحریر کریں۔

- Shazia throws a pair of fair dice. What will be the probability of getting: Number at least 5 on the first dice and the number at least 4 on the second dice.
- One alphabet is selected at random from the word " MATHEMATIC". Find the probability of getting: An E
- One alphabet is selected at random from the word " MATHEMATIC". Find the probability of getting: Not M
- One alphabet is selected at random from the word " MATHEMATIC". Find the probability of getting: Not T.
- Abdul Hadi labelled cards from 1 to 30 and put them in a box. He selects a card at random. What is the probability that selected card containing. Number between 17 to 22.
- The probability that Ayesha will pass the examination is 0.85. What will be the probability that Ayesha will not pass the examination?
- A card is chosen at random from a pack of 52 playing cards. Find the probability of getting: a jack.
- If Zeeshan rolled two fair dice, find the probability of getting: Even number on the first dice and the number 3 on the second dice.
- If two fair dice are rolled. What is the probability of getting: not the sum of both dice is 8.
- A quiz competition on a general knowledge is conducted. The number of corrected answers out of 5 questions for 100 sets of question is given below:

X	0	1	2	3	4	5
f	10	23	15	25	18	9

Find the relative frequencies for the given data.

X	0	1	2	3	4	5
f	10	23	15	25	18	9

دیے گئے مواد کے لیے نسبتی تعدد معلوم کریں۔