FINALTERM EXAMINATION

18 July,Spring 2011

MTH001- Elementary Mathematics

Ref No: 1735901

Time: 90 min

Marks:

Student Info	
Student ID:	
Center:	
Exam Date:	

For Teacher's Use Only									
Q No.	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**Total**
Marks									
Q No.	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	
Marks									
Q No.	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	
Marks									
Q No.	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	
Marks									
Q No.	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	
Marks									
Q No.	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	
Marks									
Q No	**49**	**50**	**51**	**52**					

Question No: 1 (Marks: 1) - Please choose one

The difference between the upper and the lower class boundaries of a class are known as:

► Class Marks

► **Class Interval**

► Class frequency

Question No: 2 (Marks: 1) - Please choose one

The probability of sure event is

► 0

► **1**

► 0.5

Question No: 3 (Marks: 1) - Please choose one

What is the simple interest earned on Rs.3000 invested at 8% per annum for 6 months?

► **3000 x 6 x 0.08**

► 3000 x 60 x 0.08

► 3000 x 0.5 x 0.08

► 3000 x 1.5 x 0.08

Question No: 4 (Marks: 1) - Please choose one

The probability of vowel letters from the word STATISTICS is

► 2/10

► **3/10**

► 0

► 10/10

Question No: 5 (Marks: 1) - Please choose one

Smoking habits of the residents of an area are

► Quantitative

► Qualitative

Question No: 6 (Marks: 1) - Please choose one

In a symmetric distribution

► The mean, median, and mode are equal

► The mean is the largest measure of location

► The median is the largest measure of location

► The standard deviation is the largest value

Question No: 7 (Marks: 1) - Please choose one

When two coins are tossed simultaneously, the probabilty of at least one head is _____.

► 1/4

► 3/4

► 1/2

► 1

Question No: 8 (Marks: 1) - Please choose one

20 m long rope is cut to the length of 15m. what is percenrage decrease?

►(5/20 x100)%

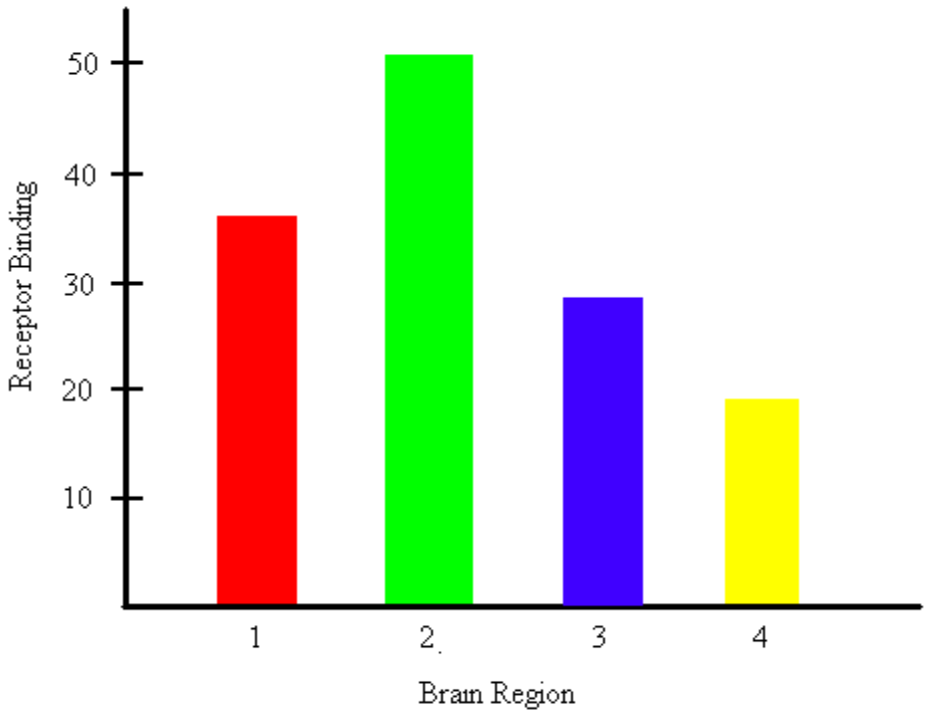
► (15/20 x100)%

►**(5/20)%**

►**(2/2000)%**

Question No: 9 (Marks: 1) - Please choose one

The chart below is a …..graph.



► Pie

► **Bar**

► Line

► Quadratic

Question No: 10 (Marks:)

List price of a shirt is Rs 450. If the discount rate is 20%, calculate the discount amount of the shirt.

Question No: 11 (Marks: 1) - Please choose one

Third Quartile = Q3 =

► P3

► **Median**

► **None of the above**

► Mode

Question No:12 (Marks: 1) - Please choose one

Standeard deviation is alaways measure from

► **Mean**

► Median

► Mode

Question No: 13 (Marks: 1) - Please choose one

The probability of sure event is

► **0**

► **1**

► 0.5

Question No: 14 (Marks: 1) - Please choose one

The probability of tail when a coin is tossed is

► **0**

► **1**

► **1/2**

Question No: 15 (Marks: 1) - Please choose one

A major disadvantage of mean is that it is affected by..

► **Extremely large values**

► Extremely small values

► Middle values

Question No: 16 (Marks: 1) - Please choose one

Mode is the measure which always exists in any numerical data

► **True**

► False

Question No: 17 (Marks: 1) - Please choose one

When 3 coins are tossed simultaneously (3 heads) will be.

► 3/8

► 1/8

► 1/4

► 1

Question No: 18 (Marks: 1) - Please choose one

If Ais the sure event, then P(A)=

► 1

► 1/2

► 1/4

► 3/4

Question No: 19 (Marks: 1) - Please choose one

Probability of a sure event is

► 1/2

► 0

► 1

► 1/4

Question No: 20 (Marks: 1) - Please choose one

If E and F are mutually exclusive events such that P (E) =0.4 and P(F) =05 then.

► 0.2

► 0.9

► 0.1

► 0.5

Question No: 21 (Marks: 1) - Please choose one

Which of them is a proposition?

► x is greater then 2

► **3+7 =10**

► close the door

► what time is it?

Question No:22 (Marks: 1) - Please choose one

Conjunction of two statements p and q is denoted by

► $p \wedge q$

► $p \vee q$

► $p \leftrightarrow q$

► $p \rightarrow q$

Question No: 23 (Marks: 1) - Please choose one

The component bar chart should be used when we have available to use in formation regarding totals and their components.

► True

► False

Question No: 24 (Marks: 1) - Please choose one

A conditional statement is logically equivalent.

► contra positive

► Inverse

► converse to its

Question No: 25 (Marks: 1) - Please choose one

Which one of the following is the negation of the statement

► If Tanveer live in Lahore then he does not live in Pakistan

► Tanveer does not live in Lahore and he lives in Pakistan

► If Tanveer does not live in Lahore then he does not live in Pakistan

► Tanveer does not live in Lahore then he lives in Pakistan

Question No: 26 (Marks: 1) - Please choose one

According to Demorgan's Law ~ (p ^q) =

►~ p ^q

► ~p ^ ~q

► **~p v~q**

► p ^ ~q

Question No: 27 (Marks: 1) - Please choose one

Order of elements in a set does not matter

► True

► False

Question No: 28 (Marks: 1) - Please choose one

If A = {1, 2, 3, 4} and B = {5,6,7}, thenA∩ B.

► {1,2,3}

► {5,6,7}

►**{1,2,3,4,5,6,7}**

► **O**

Question No: 29 (Marks: 1) - Please choose one

Which one of the following sets is finite?

► set of real numbers

► set of even numbers

►**{x| x∈z ^ 0 ≤ x ≤ 12}**

►**{x| x∈IR ^X≥ 12}**

Question No: 30 (Marks: 1) - Please choose one

If R ={(a,a),(b,b),(c,c)} is a relation on the set A = {a,b,c}

► **symmetric only**

► **symmetric and Reflexive**

► **Eguivalence relation**

► **Reflexive only**

Question No: 31 (Marks: 1) - Please choose one

2 x + 6y is a

► Monomial

► Binomial

► Trinomial

► none of these

Question No: 32 (Marks: 1) - Please choose one

Order of matrix A = [2] is
4

► **1 x1**

► 2 x 2

► **2 x 1**

► 1 x 2

Question No: 33 (Marks: 1) - Please choose one

If matrix A is of order 2 x 3 and B is of order 3 x 4, then order or matrix AB will be

► 2 x 4

► **2 x 3**

► 2 x 2

► 3 x 2

Question No: 34 (Marks: 1) - Please choose one

Data which is not arranged in ascending or desecending order is called

► grouped data

► raw data

► qualitative data

Question No: 35 (Marks: 1) - Please choose one

If x : y = y : 1 then x =

► y^2

► y

► $\frac{y}{x}$

► x 2 y

Question No: 36 (Marks: 1) - Please choose one

If set A has m elements and set B has n elements then the total numbers of relation from A to B are

► m^{mn}

► 2 x n

► m +n

► mn

Question No: 37 (Marks: 1) - Please choose one

Determine the range of the function g from X = {2,4,5} to Y = { 1,2,4,6} defined as g

={(2,6),(4,2),(5,1)}

► Range of g ={1,2,6}

► Range of g = {2,6}

► Range of g ={2,4,5}

Question No: 38 (Marks: 1) - Please choose one

Suppose A is a set with m elements and B is a set with n elements.How many functions are there from A to B?

► **m.n**

► n^m

► $n^m \cdot n^m$

Question No: 39 (Marks: 1) - Please choose one

If the price of shoes increase from Rs.600 to 900, what is the percentage increase?

► **(** 600/3)%

► (900/6)%

► **(** 600/9)%

► (300/6)%

Question No: 40 (Marks: 1) - Please choose one

The value of all assets that are reasonably expected to be converted in to cash with in one year in the normal course of business are called

► Liabilities

► Current assets

► Face value

Question No: 41 (Marks:) - Please choose one

Define Observations.

Question No: 42 (Marks:) - Please choose one

A pair of fair dice is rolled once .Find the probability that the sum of the face is 9.

Question No: 43 (Marks:) - Please choose one

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let f : R → R be defined by f (x) =x+1

$$\frac{}{x+2}$$

show that f is one - to –one and onto

Question No: 44 (Marks:) - Please choose one

Finde the value of x in the proportion (5x+ 1):3 =(2x +2): 7(6 x) = (4x) :7

Question No: 45 (Marks:1) - Please choose one

The chart below is a ……. graph

►Bar

►Pie

►Line

►Simple bar

Question No: 45 (Marks:) - Please choose on

Consider the following diagrams