**AFSS CENTRAL EVALUATION SYSTEM**

Central Assessment Team (CAT), HO Islamabad

**1st Mid Term Examination 2016 – 17**

**MATHEMATICS - Class VII**

**50 marks 2 hours**

**INFORMATION FOR STUDENTS**

Marks are given against each question or part of question.

Write your name, roll number and date in the spaces provided below.

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| --- | --- |
| Student’s Name:  | Roll No: |
| Center’s Name: | Date: |
|  | Day: |
| Invigilator’s Name: | Sign: |
| Marks Obtained:  | Remarks: |
| Examiner’s Name:Date: | Sign :Day: |

***OBJECTIVE-20***

**Q. No. 1:a) Tick (√) at the correct answer. 10**

i) If a set A is a subset of given universal set U, then the difference set U/A is:

 a) universal set b) complement of A c) empty set

ii) If A = {1,2,3,4} and B ={1,2} than A∩B is

 a) φ b) {1, 2} c) {1,2,3,4}

iii) When a given set is the overall set to which all the objects in the discussion belong, the given set is called:

 a) null set b) Complement of a set c) universal set

iv) The number ¾ is:

 a) rational no b) integer c) whole number

v) The set {1,2,3,4,5,…….} is called set of:

 a) whole numbers b) natural numbers c) rational no’s

vi) The sum of two rational numbers is also a:

 a) Irrational numbers b) rational numbers c) Natural no’s

vii) A \_\_\_\_\_\_\_\_\_\_\_ is a collection of objects that clearly identified:

 a) element b) set c) triangle

viii) The set of whole numbers less than 6 is:

 a) {1,2,3,4,5} b) {0,1,2,3,4,5} c) {1,2,3}

ix) If a = 2 and b = 1 then value of a – 2b is:

 a) 1 b) 0 c) 3

x) A = {1,2,3} is \_\_\_\_\_\_\_\_\_\_\_ subset of B={1,2,3}

 a) proper b) improper c) null

**Q. No 2: Solve any five short question of the following. 2\*5=10**

i) Evaluate 3.15 ÷ 2.5

ii) Subtract 2p + q – 5 from p – 3q – 3.

iii) If A = {0,2,4,6,8} and B = {1,3,5,7,9} then find AUB and B/A.

iv) Simplify: $\left(\frac{-6}{15}\right)÷\left(\frac{4}{35}\right)$

v) Express the following decimals as fractions $\frac{1.2144}{0.012}$

vi) Find the positive square root of 3969.

vii) Find the values of fraction in decimal $6\frac{16}{33}$

***SUBJECTIVE - 30***

 **Solve any three questions of the following. Each question carry equal marks. 3\*10=30**

**Q. No. 1: Find the greatest number which divides 742 and 1162 leaving 7 as remainder in each case.**

**Q. No. 2: If AB = 4.5cm and CD = 2.1cm construct a line segment of length equal to:**

 **i) AB – CD ii) 2AB**

**Q. No. 3:** **Show that:**

$\frac{-2}{3}\left(\frac{4}{5}+\frac{-8}{15}\right)=\left(\frac{-2}{3}+\frac{4}{5}\right)+\left(\frac{-2}{3}+\frac{-8}{15}\right)$

**Q. No. 4:** **Find the positive number which when multiplied by itself gives 15864289.**