**AFSS CENTRAL EVALUATION SYSTEM**

Central Assessment Team (CAT), HO Islamabad

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

**MATHEMATICS - Class VI**

**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.

|  |  |
| --- | --- |
| 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) Fill in the blanks with ∉ ,∈ , ⊂, ⊄, = or ≠. 10**

i) 10\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ {1,3,5,……..}

ii) {1, 3, 5} \_\_\_\_\_\_\_\_\_ {3, 5, 1}

iii) {0} – { }

iv) {a, b} – {vowels of the English alphabet}

**Fill in the blanks with suitable numbers to make correct statements.**

v) \_\_\_\_\_\_\_\_\_\_\_ x (3 + 4) = (\_\_\_\_\_\_ x 3) + (5 x 4)

vi) 5 x (7 + 2) = (5 x \_\_\_\_\_\_) + (\_\_\_\_\_\_ x 2)

Fill in the blanks with symbols ‘<’ or ‘>’.

vii) - 3 \_\_\_\_\_\_\_\_ - 14.

viii) - 2 \_\_\_\_\_\_ - 1.

Write the missing element in each pair of sets so as to make them equal.

ix) A = {letter of word Lahore} , L = {A,H,R,E,\_\_\_\_}

x) A = { \_\_\_\_\_\_\_\_\_}, B = {x : x is the least whole number}.

**Q. No. 2:** **Solve any five of the following short questions. 10**

i) List the prime humbers between 50 and 75.

ii) Find the H.C.F of 22 x 33 , 22 x 32 x 5, 32 x 5.

iii) Find the prime factors of 663.

iv) Write set B = {2, 3, 5, 7, 11, 13, 17, …….} in set-builder notation.

v) Write 5, 20, 3400, 005 in number name.

vi) Write 67845 in expanded form.

vii) Give the multiples of 21 between 100 and 200.

***SUBJECTIVE - 30***

**Solve any three questions of the following. Each question carry equal marks.**

**Q. No. 1: Find the greatest number which divides 2300 and 3500 leaving 32 and 56, respectively, as remainder.**

**Q. No. 2: Find the L.C.M of**

**36,54,72,96,108**

**Q. No. 3:** **The product of two numbers is 2400. If the L.C.M is 120, find their H.C.F.**

**Q. No. 4:** **Prove that the following two sets are equal**

**A = Set of prime factors of 36**

**B = Set of prime factors of 108.**