

AFSS CENTRAL EVALUATION SYSTEM

Central Assessment Team (CAT), HO Islamabad

1st Mid Term Examination 2017 – 18

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: Sign:

Date: Day:

OBJECTIVE-20 marks

Q No1: Define the following sets and numbers with the help of examples. 10/

i) **Empty Set** _____

ii) **Singleton Set** _____

iii) **Prime numbers** _____

iv) **Composite numbers** _____

v) **Natural Numbers** _____

Q No2: Find which of the following statements are true or false. 5/

- i) Associative law is valid for division of whole numbers. _____
- ii) Zero is the natural number. _____
- iii) All prime numbers are odd also. _____
- iv) If $A = \{1, 3, 5, 7\}$ then $5 \in A$. _____
- v) 672 is the composite number. _____

Q No3: Write any two numbers in each column. 5/

| Divisible by 2, 3 and 5. | Divisible by 4, 5 and 8. | Divisible by 2, 3 and 11. | Divisible by 5, 8 and 11. |
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SUBJECTIVE – 30 marks

Solve the following questions.

Q No 1: A room service person entered the elevator at the fourth floor from where the elevator moved down 6 floors and then moved down another 10 floors and he stepped out of the elevator at this floor. Use integers to find out the floor at which service person left the elevator. 5/

Q No2: Simplify the following without using the number line. 5/

i) $625 - (-36) - 100$

Divide the following integers.

ii) $5000 \div (-10) \div 500$

Q No3: Prove the associative property of multiplication for 12, 7 and 20. 10/

ii) Solve: $30 \times (54 - 14)$ using distributive property.

Q No4: Find the union and intersection of the following sets. 10/

R = Factors of 24 and S = Factors of 36

b): If $X = \{15, 16, 17, 18\}$, $Y = \{17, 18, 19, 20\}$ then show that $X \cup Y = Y \cup X$