**AFSS CENTRAL EVALUATION SYSTEM**

Central Assessment Team (CAT), HO Islamabad

**2nd MidTerm 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.

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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(marks)***

**Q No 1(a):Fill in the blanks: 5**

1. Three points on the line are called \_\_\_\_\_\_\_\_\_\_\_.
2. Two planes intersect at most in one \_\_\_\_\_\_\_\_\_\_.
3. Only one line can be drawn through \_\_\_\_\_\_\_\_\_\_.
4. Measure of the exterior angle of a triangle is equal to the sum of the measure of the opposite \_\_\_\_\_\_\_\_ angle.
5. In a triangle, the sum of the lengths of any two sides is greater than the length of the \_\_\_\_\_\_\_\_ side.

**Q No1(a):Choose the best answer. 5**

i) The region enclosed by an arc and the corresponding chord is called a \_\_\_\_\_\_\_\_\_\_\_\_

 a) minor arc (b) segment (c) major arc

ii) One and only one plane can be drawn containing \_\_\_\_\_\_\_\_intersecting lines.

1. 2 (b) 3 (c) 6

iii) Angles opposite to equal sides of a triangle are \_\_\_\_\_\_\_\_\_.

 a) Equal (b) not equal (c) greater

iv) A triangle is said to be a \_\_\_\_\_\_\_\_\_\_ triangle when all its three sides are

 unequal in length.

 a) Isosceles (b) Equilateral (c) Scalene

v) 2 is only a even \_\_\_\_\_\_\_\_\_ number.

 a) composite Number (b) negative integer (c) Prime number

**Q No 3:Solve any five of the following short questions. 10**

1. Add the following algebraic expression

 m2+mn+n , 2m2-3mn+4n2 , -m2+mn-2m2

1. Solve the equation. $\frac{3x}{4}$ – 5= 2$x$
2. What are the measures of the reflex angles between the hands of a clock at 5 p.m.
3. Write an equation of the following statement.

One-fifth of a number added to 6 is 10.x

1. Calculate how many degrees there are in Two and half right angles.
2. Determine the numerical value of $\frac{1}{9}z$2-y +$x$ when $x=2$,y=-1, z=3.
3. Evaluate 1- 1- ( 1-1+$x$) when $x=1$

***SUBJECTIVE – 30(marks)***

**Solve the following questions. 3×10=30**

**Q No1(a):**The sum of the present ages of the Tahir and Masud is 18 years ago Tahir was three times as old as Masud. Find their present age.

 **b):** 2(a2-b2) – 3 a2 - b2 –a2 +( a2-b2-a2)

**Q No 2(a):**Calculate the angles marked from <1 to <9 in the following figure.

500

1

3

2

4 9

600 700

5 7 8

6

 **b):**The internal angles of a triangle are in the ratio 3:5:7.Find the degree

measures of the angles. Also find measure of its greatest exterior angle.

**Q No3(a):**If a number is tripled and the result is increased by 5, we get 44. Find the number.

 **b):** If A = $x$ –y+ z , B= 2$x$-3y=4z, and C= 4$ x$-5y-6z, find A-B+C