## Federal Board HSSC-I (2017)

## (Marks 20)

Section-A is compulsory and comprises pages 1-2. All parts of this section are to be answered on the question paper itself. It should be completed in the first 25 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

- Circle the correct option i.e. A/B/C/D. Each part carries one mark.
- (i) Reference angle lies in quadrant:

A.

The set {0,1} is closed w.r.t:

Division D.

Addition B.

Multiplication

 $\sqrt{-5}$  belongs to the set of:

Subtraction

Rational Numbers A.

B. Real Numbers

Complex Numbers

Integers

The set of integers Z is a group under:

Subtraction Addition

D. Multiplication Division

A declarative statement which may be (v) true or false but not both is called:

Tautology B. Proposition

D. induction Deduction

If  $A = \begin{bmatrix} x & 1 \\ 1 & 1 \end{bmatrix}$  and A is singular matrix,

then x =

(vii) The product of strought roots of unity is:

A fraction of the product of strought roots of an ity is:

(viii) A fraction of the product of strong and the product of str fraction in which the degree of numerator is less than the degree of the denominator is called:

Algebraic Relation Α.

improper Fraction B.

Proper Fraction C.

Equation

(ix) $n^2(n+1)^2$ n(n+1)(2n+1)