

Roll No:

Sig. of Candidate:

Answer Sheet No:

Sig. of Invigilator:

### Federal Board SSC-II Examinations Model Question Paper Mathematics

(Science Group) (Curriculum 2006)

#### SECTION - A

Time allowed:	20 minutes
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Marks: 15

Note: Section-A is compulsory. All parts of this section are to be answered on the separately provided OMR Answer Sheet and should be completed in the first 20 minutes and handed over to the Centre Superintendent. Do not use lead pencil.

## Q.1 Choose the correct answer by filling the relevant bubble for each question on the OMR Answer Sheet according to the instructions given there.

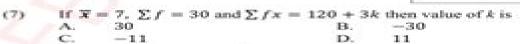
#### Each part carries one mark.

- (1) Which of the following types represents (x 3)(x + 3) = 0?
   A. Quadratic equation
   B. Linear equation
   C. Cubic equation
   D. Pure quadratic equation
- (2) For what value of k,  $2x^2 + kx + 3 = 0$  has equal roots? A.  $2\sqrt{6}$  B. 24C.  $\pm 2\sqrt{6}$  D.  $\pm 6\sqrt{2}$
- (3) If  $z \propto (w + 3)$  and w = 3, z = 6. What is value of 2z when w = 9?

  A. 12
  B. 24
  C. 6
  D. 4.5
- (4) If  $\alpha$  and  $\beta$  are the roots of  $2x^2 6x 4 = 0$ . What is value of  $\alpha^2 \beta^3 + \alpha^3 \beta^2$ ?

  A. -12B. 12C. 6D. -6
- (5) Which of the following are the partial fractions of  $\frac{x^3}{x^3+1}$ ?

  A.  $\frac{Ax^3}{x+1} + \frac{Bx+C}{x^2-x+1}$ B.  $1 + \frac{A}{x-1} + \frac{Bx+C}{x^2+x+1}$ C.  $1 + \frac{A}{x+1} + \frac{Bx+C}{x^2-x-1}$ D.  $1 + \frac{A}{x+1} + \frac{Bx+C}{x^2-x+1}$
- (6) Which of the expressions shows the shaded region?
   A. A∩B'
   B. A'∩B
  - C. A U B' D. A' U B



(8) If  $sin\theta = \frac{4}{5}$  and  $sec\theta = \frac{5}{3}$  then what is value of  $tan\theta$ ?

A.  $\frac{2\sqrt{3}}{5}$ B.  $\frac{\sqrt{34}}{3}$ C.  $\frac{4}{5}$ D.  $\frac{3}{5}$ 

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**JG Myers** 

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