Roll No: | | | | | | | | Answer Sheet No: _____

Sig. of Candidate: _____ Sig. of Invigilator: _____

Federal Board SSC-II Examinations
Model Question Paper Mathematics
(Science Group) (Curriculum 2006)

SECTION – A

Time allowed: 20 minutes 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. 24
C. $\pm 2\sqrt{6}$ 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 α and β are the roots of $2x^2-6x-4=0$. What is value of $\alpha^2\beta^3+\alpha^3\beta^2$?

A. -12 B. 12
C. 6 D. -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. $A \cap B'$
B. $A' \cap B$
C. $A \cup B'$
D. $A' \cup B$

(7) If $\bar{x}=7$, $\sum f=30$ and $\sum fx=120+3k$ then value of k is

A. 30 B. -30
C. -11 D. 11

(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. $\frac{3}{4}$

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