

Council for Technical Education and Vocational Training
Office of the Controller of Examinations
Sanothimi, Bhaktapur
Regular/Back Exam-2077, Magh/Phalgun

Program: Diploma in Agriculture (Animal/Plant Science)
Year/Part: First Year (2014)
Subject: Mathematics

Full Marks: 80

Pass Marks: 32

Time: 3 hrs

Candidates are required to give their answers in their own words as far as practicable.
The figures in the margin indicate full marks.

Group "A"

Attempt All questions.

[8(2+2)=32]

1. a) Let $U = \{a, e, i, o, u\}$, $A = \{a, i, u\}$, $B = \{a, e, o\}$ find :
i) $A \cup B$ ii) $A - B$
b) Rewrite without using absolute value sign : $|2x + 1| \leq 3$
2. a) Let $A = \{0, 1, 2, 3, 4, 5, 6\}$ and a function $f : A \rightarrow \theta$ be defined by $f(x) = \frac{x}{2}$. Find the range of f .
b) Prove that : $\log(1 + 2 + 3) = \log 1 + \log 2 + \log 3$
3. a) if $\tan x = K \tan y$, show that $(k - 1) \sin(x + y) = (k + 1) \sin(x - y)$
b) Solve the equation, $\sin x + \sqrt{3} \cos x = \sqrt{2}$.
4. a) If $\tan^{-1}x + \tan^{-1}y + \tan^{-1}z = \pi$, prove that $x + y + z = xyz$
b) G is the geometric mean between a and b , show that:
 $\frac{1}{G^2 - a^2} + \frac{1}{G^2 - b^2} = \frac{1}{G^2}$ $G = \sqrt{ab}$
5. a) If $A = \begin{bmatrix} 3 & -2 \\ 4 & -2 \end{bmatrix}$ and $I = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$
then find K when $A^2 - KA + 2I = 0$ where I denotes identity matrix of 2×2 .
b) Solve by crammer's rule method :
$$\begin{matrix} 2x - y = 5 \\ x - 2y = 1 \end{matrix}$$
6. a) If the equation $x^2 + 2(k + 2)x + 9k = 0$ has equal roots. Find the value of ' k '.

Cont.....

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