HAWASSA UNIVERSITY

Collage of Natural and Computational Science Department of Mathematics

Work sheet -1

Basic Mathematics for Natural Sciences

(2014EC)

- 1. Show that the following propositions are equivalent
 - a) $(P \implies 0)$ and $\neg PVO$
- b) Pand PA (OV -O)
- 2. For statements p. q. and r. show that the following compound statements are tautology.
 - a) $(p \land (p \Rightarrow q)) \Rightarrow q$. b) $((p \Rightarrow q) \land (q \Rightarrow r)) \Rightarrow (p \Rightarrow r)$.
- Let p and a be statements. Which of the following implies that p ∨ a is false?
 - a. −p ∨ −q is false.

c. p => a is true.

b. ¬p v q is true.

- d. $p \land \neg q$ is true.
- 4. Suppose that the statements P.Q.R. and S are assigned the truth values T.F.F. and T. respectively. Find the truth value of each of the following statements
 - (a) $R \Longrightarrow (s \land P)$ (b) $P \Longrightarrow (R \Longrightarrow 5)$.
- $(c) O \land \neg S \Longrightarrow (P \Longleftrightarrow S).$
 - (d) $(R \land S) \Rightarrow (P \Rightarrow \neg O \lor S)$
- a) If the value of P ⇒ Q, is F, then what is the truth value of (¬P∧Q) ⇔ (PVQ)?
 - b) If the value of P ⇔ Q is T, then what is the truth value of P ⇔ ¬Q and ¬P ⇔ Q?
 - c) If the value of P ← Q is F, then what is the truth value of P ← ¬Q and ¬P ← Q?
- 6. Find the truth value of following compound statements using the given information.
 - a) (p ⇒ q) ⇒ r, where r = T.

- c) $p \lor (q \Longrightarrow r)$, where r = T.
- b) $\neg (p \lor q) \Leftrightarrow (\neg p \land \neg q)$, where $p \lor q = T$. d) $(p \Rightarrow q) \Rightarrow (\neg q \Rightarrow \neg p)$, where q = T.

- e) $(p \land a) \Longrightarrow (p \lor s)$, where p = T.
- 7. Let P(x,y): $\frac{\pi}{c} < 1$, where the domain of x is $A = \{2,3,5\}$ and the domain of y is $B = \{2,4,6\}$. Then determine the truth value of the following quantified statement.
 - a) (∀x ∈ A)(∃y ∈ B)P(x, y).
 b) (∃x ∈ A)(∃y ∈ B)P(x, y).
 c) (∃y ∈ B)(∀x ∈ A)P(x, y).
- 8. Determine the truth value of the following statements.
 - a) (∃x ∈ R)(x² − x = 0).
- e) $(\exists y \in \mathbb{R})(\exists x \in \mathbb{R})(x^2 + y^2 = 9)$.
- b) $(\forall x \in N)(x + 1 \ge 2)$.
- f) $(\exists y \in \mathbb{R})(\forall x \in \mathbb{R})(x + y + 3 = 8)$

c) $(\forall x \in \mathbb{R})(\sqrt{x^2} = x)$.

- e) $(\forall x \in \mathbb{R})(\exists v \in \mathbb{R})(x + v = 5)$
- d) $(\exists x \in \mathbb{Q})(3x^2 27 = 0)$.
- h) $(\exists x \in \mathbb{R})(\forall y \in \mathbb{R})(x + y = 5)$
- 9. Investigate the validity of the following argument forms using truth table method.
 - a) $-p \Longrightarrow -q, q \vdash p$.

 - $b) p \Rightarrow \neg p. p. r \Rightarrow q \vdash \neg r.$ c) $p \Rightarrow q. \neg r \Rightarrow \neg q \vdash \neg r \Rightarrow \neg p.$
- 10. Investigate the validity of the following argument forms using formal proof (rule of inference)
 - a) $-p \Longrightarrow -q, q \vdash p$.
- c) $\neg r \land \neg s, (\neg s \Rightarrow p) \Rightarrow r \vdash \neg p$.
- b) $p \Rightarrow -q, p, r \Rightarrow q \vdash -r$. d) $-q \Rightarrow -p, r \Rightarrow p, -q \vdash r$. e) $p \Rightarrow q, -r \Rightarrow -q \vdash -r \Rightarrow -p$.

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RS Peters

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