



2006 EXAMINATIONS

UNIT 4

FIRE PROTECTION SYSTEMS & COMMUNICATION

Saturday 2nd September 2006

SECOND SESSION 1200 to 1400 hours

Ten Minutes are allowed to read through this paper.

Candidates are to **attempt any five questions.**

All questions carry equal marks and may be answered in any order.

Ink or ballpoint pens are to be used for all written work.

Pencil may be used for diagrams or sketches.

All working must be shown.

Marks may be deducted for untidy work.

Spare paper can be obtained from the invigilator if required

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Candidate Number		



QUESTION 1

The Fire Service is currently promoting **Fire Sprinkler Systems** for houses. List the advantages and disadvantages of installing such a system.

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QUESTION 2

Building Fire Alarm systems are clearly categorised into SIX (6) specific types.

A). List the SIX (6) types and briefly outline the principle of operation for each

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3.1) A typical INCIDENT LOG compiled by the Communications Centre includes a number of "K" code messages throughout the duration of an incident. Insert the missing details for each of the messages relayed to Communications Centre.

K1

K99 Proceeding

K99

SITREP

K41.3

K11.1

K44

K47

K5

K6.....
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K7.....
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3.2) Using the phonetic alphabet spell out the following word.

E

Q

U

I

N

O

X

I

A

L

QUESTION 4

In relation to "*Location and Marking of Fire Hydrants*" -

A). Detail the THREE (3) markings required for underground fire hydrants located on or adjacent to sealed roads

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B). Provide diagrams of each of the above

~ continued overleaf ~

C.) Detail the TWO (2) markings for underground fire hydrants located on or adjacent to unsealed roads.

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D). Define STATIC PRESSURE

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E). Define RUNNING PRESSURE

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QUESTION 5

An example of an automatic fire extinguishing system not using water, is one utilising GAS FLOODING.

A). List the advantages and disadvantages of such a system

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B). Detail the safety requirements to be incorporated in a location where total flooding is utilised.

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C). Give TWO (2) examples of where you would encounter such an installation

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QUESTION 6

