ADVANCED LEVEL NATIONAL EXAMINATIONS, 2014
TECHNICAL AND PROFESSIONAL TRADES

EXAM TITLE: Microsoft Office and Networking

OPTIONS:  
- Computer Science (CSC)
- Computer Science and Management (CSM)

DURATION: 3 hours

INSTRUCTIONS:

The paper is composed of three (3) main Sections:

Section I: Thirteen (13) questions, all Compulsory.  
30marks

Section II: Five (5) questions, Choose any Three (3).  
15marks

Section III: Three (3) questions, Choose any One (1).  
55marks
SECTION I. THIRTEEN (13) COMPULSORY QUESTIONS

01. Give two (2) clear statements about Local Area Networks (LAN).
    4marks

02. Define the functions of the following:
    a) WAN
    a) Modem
    b) Insert -> Text box in power point
    c) F5 in power point
    8marks

03. Give the meanings of the following:
    a) gutter margin
    b) internet
    c) bandwidth
    d) Portrait.
    8marks

04. What is the meaning of this tool (¶)?
    2marks

05. What is the equivalent of a Terabyte in gigabyte?
    2marks

06. Identify three resources that Computer on server/client environment enables to be shared by multiple users at the same time?
    3marks

07. Write any two (2) valid versions of Microsoft Office.
    4marks

08. Differentiate Hardware from software.
    4marks

09. Distinguish dropping and dragging.
    4marks

10. Define clearly Kernel.
    5marks

11. Name five (5) main tasks of Kernel.
    5marks

12. How does a device initiate a conversation with a CPU?
    1mark

13. Give three (3) examples of operating systems and two(2) of application software.
    5marks
SECTION II. CHOOSE AND ANSWER ANY THREE (3) QUESTIONS

14. A physical topology defines the way in which computers, printers, and other hosts are connected to a network. A logical topology describes how the hosts access the medium and communicates on the network.
Explain and draw schema for three physical topologies on your choice 10marks

15. The following exhibit shows the NIC configuration of Host on the Network.

What is the IP address of the Router address? 10marks

16. Suppose the spreadsheet is having the following cell and values:

<table>
<thead>
<tr>
<th>Cells</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>C2</td>
<td>12</td>
</tr>
<tr>
<td>C3</td>
<td>44</td>
</tr>
<tr>
<td>C4</td>
<td>21</td>
</tr>
<tr>
<td>C5</td>
<td>43</td>
</tr>
</tbody>
</table>

What will be the answer of the following formulas?

a) \( = \text{sum}(C2:C5) \)

b) \( = \text{average}(C5:C2) \)

c) \( = (\text{max}(C2:C5))^2 \)

d) \( = (\text{count}(C5:C2))+C2 \) 10marks

17. List correctly all the seven (7) layers of OSI Model and Match them with the four (4) layers in TCP/IP Model. 10marks

18. What are the two (2) advantages and two (2) disadvantages of STP versus UTP cables? 10marks
SECTION III. CHOOSE AND ANSWER ANY ONE (1) QUESTION

19. What is the use of the following Commands used in networking:
   a) Ping
   b) Ipconfig
   c) Tracert
   d) Nslookup 15marks

20. Network Operating System: is a software program that controls other software and hardware running on a network. It also allows multiple computers, known as network computers, to communicate with one central hub and each other to share resources, run applications, and send messages. The same NOS serves to run servers that also support different server services such as File server, DHCP server, DNS server and Web Server etc Q/Give two (2) different examples of NOS Windows based and one (1) Unix based Network Operating System. 15marks

21. Give four (5) different valid IP addresses of class C. 15marks

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