Form No. Ex- 8

Particulars about the candidate and the subject are checked thoroughly and corrected where necessary.

Sl. No..... 550

CENTRE ROLL:.....

Signature of Officer-in-Charge

Invigilator

KRISHNA KANTA HANDIQUI STATE OPEN UNIVERSITY

BCA 5th Semester Examination 2014

Course 15

(Data communication & Computer Network)

Question No.	Marks
Total=	

Enrolment Number | | | | | | | | | | | | | **Year** | |

Medium of Answer : | |

INSTRUCTIONS TO CANDIDATES

1. This booklet contains...20..... Pages numbering..19.....
2. An Examinee is allowed to bring only Admission Card and Identity Card to the Examination Hall. Any Examinee found in possession of loose papers, books etc. is liable to be Expelled.
3. Enrolment No. and Medium of answer must be written legibly at the specified places. Examinee's name and any other identifying mark which reveals examinees identity shall not be written anywhere in the script.
4. For Making calculations, only the last page provided for rough work shall be used.
5. No pages of the script be torn out .
6. Calculators will not be allowed for making calculations in the examination hall. ***MOBILE PHONES are strictly prohibited in the examination Centre.***
7. No candidate will be allowed to leave or go out of the hall during the First hour of the Examination.
8. A candidate having completed his/her answer, the script must be handed over, to an invigilator before leaving the hall.
9. Contravention of any of the instructions mentioned above shall render a candidate liable for disciplinary action as per regulations of the University.

Examiner's Signature_____

Scrutiniser's Signature_____

Head Examiner's Signature:_____

BCA 5th Semester Examination 2014
Course : 15
(Data Communication & Computer Network)

Time : 3 Hrs. Full Marks : 80

1. Answer the following questions : 1×8 = 8

   (a) What is repeator?

   (b) What is the IEEE standard for Gigabit Ethernet?

   (c) Write down two Ethernet cabling options for bus topologies.

   (d) What is protocol stack?

   (e) What is the frequency range of infrared?

   (f) Write down two examples of metropolitan area network.

   (g) Write down one example of guided media and one example of unguided media of transmission.

   (h) What is Firewall?

2. Answer the following questions : 2×8 = 16

(a) How looping problem can be avoided?

(b) Write down four different generations of LAN.

(c) Distinguish between Internet an www.

(d) Write down different categories of coaxial cables.

(e) What is connection oriented service? Give example.

(f) What are the prime duties of Data Link Layer?

(g) Write down the disadvantages of Twisted pair cable.

(h) Write down the different types of switch.

3. Answer any five questions from the following : 4×5 = 20

(a) Explain Circuit Switching.

(b) Explain Internet architecture.

(c) Write down the different fields of the IEEE 802.4 frame

(d) Explain the different LAN transmission methods.

(e) Write down the advantages and disadvantages of fiber optic cables.

(f) Write down any four advantages of Internet.

(g) Write short note on -

(i) Network security (ii) Web browser

4. Answer any two questions from the following : 8×2 = 16

(a) Explain the different types of ways to travel signal from source to destination in case of wireless communication. Write down the different types of frequency bands available in wireless communication.

(b) Explain the different types of network physical topologies.

(c) What is Ethernet? Explain Fast Ethernet.

5. Answer any two questions from the following : 10×2 = 20

(a) What is LAN adopter? Write down its function. Write down different types of NIC.

(b) Explain different layers of ISO-OSI model.

(c) Write short note on (any two) :

(i) Router (ii) Firewall (iii) Domain Name System