RAMAGYA SCHOOL, NOIDA

SUBJECT- MULTIMEDIA & WEB-TECHNOLOGY
CLASS – XII- 2017-18
RECAP WORKSHEET- MAY

1. **Fill in the blanks.**
   a. A device that converts analog signal to digital and vice versa is called _____?
   b. Someone who breaks into a network without permission and with malicious intent is called _____?
   c. _____ is the device that is used to connect two similar types of networks
   d. A software which is available freely and can be used and modified by anyone for their personal use is called _____

2. **Define the following terms:**
   a. Firewall
   b. FLOSS
   c. Proprietary Software
   d. Gateway
   e. Shareware

3. **Differentiate between the following (3 Points each):**
   a. Star Topology and Ring Topology
   b. Antivirus and Firewall
   c. OSS and FLOSS
   d. Switch and Bridge
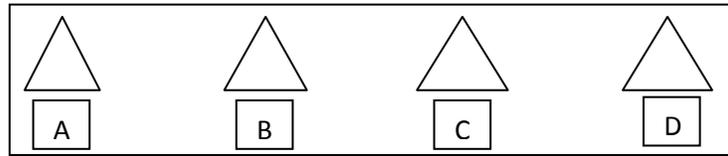   e. GSM and CDMA
   f. Circuit Switching and Packet Switching

4. **Short answer type questions:**
   a. Why do you think we need cyber laws to govern the internet?
   b. What is a Proprietary Software? Explain any one Proprietary software with the help of an
   c. What are Cookies and why they are important for network communication?
   d. Why do you think optical fibre is preferred over twisted pair cable and coaxial cable?
   e. "TCP is a reliable protocol where as IP is an unreliable one". Justify this statement
   f. Which transmission medium is useful for sparsely populated areas?
   g. Which device do not control broadcast , filter traffic and filter collision?

Long Answer Type Questions/HOTs Questions

1. Aleena is interested in transferring few Songs from her mobile phone to Sanyan's mobile phone. Suggest two suitable wireless options she may opt for to do the same.

2. An organization has setup its new Branch in Mizoram for its office and web based activities. It has 4 wings of buildings as shown in the diagram below:

Center to Center distances between various blocks and number of computers in each wing:

A TO B	40m		No.of Comps.	
B TO C	60m		Wing A	50
C TO A	135m		Wing B	130
C TO D	70m		Wing C	40
A TO D	165m		Wing D	15
B TO D	130m			

a. Suggest a suitable topology for the above layout with justification.
b. Suggest a suitable wing where a Server could be housed for this organization with a suitable justification
c. Suggest the placement of the following devices:
    - Repeater
    - Hub/Switch
d. The organization is planning to link its head office situated in Delhi with offices across India. Suggest an economic way to connect it and justify your answer.

3. Name the protocols in each case of the following:
a. To upload and download files from/to a remote internal server
b. To upload hypertext document on the internet
c. To transfer email over internet
d. To implement remote login
e. Chatting between two groups or between two individuals

4. Girish Ramanuj is an entrepreneur who has recently set up a new business. Girish needs to create a lot of documents, presentations, databases and spreadsheets to maintain data and spread his business. However, he does not have the money to purchase any of the proprietary software which offers all these packages. Can you suggest what software can Girish use for which he has to pay no licensing fee?

5. What are the main factors that affect data transmission?

6. What is a communication channel? What choices do u have while choosing a communication channel for a network?

7. What is the significance of anonymous user in FTP? What is uploading? Can an anonymous user upload? If yes, how? If no, why?