

# KENDRIYA VIDYALAYA LATEHAR

## PERIODIC TEST-1, SESSION 2019-20

CLASS: XII

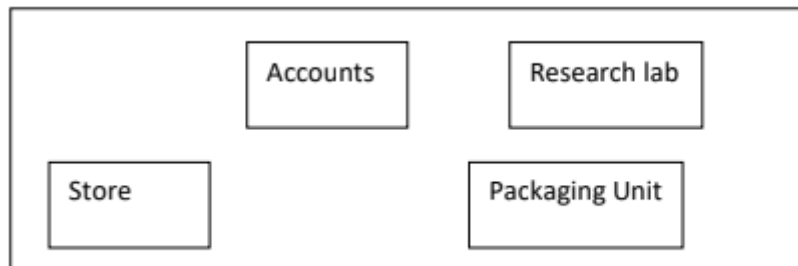
SUBJECT: COMPUTER SCIENCE(083)

TIME ALLOWED: 1:30 HOURS

MAX MARKS: 40

1(a) Write any one advantage and one disadvantage of Coaxial cable. (1)

(b) Riana Medicos Centre has set up its new centre in Dubai. It has four buildings as shown in the diagram given below: (4)



Distances between various buildings are as follows:

Accounts to Research Lab	55 m
Accounts to Store	150 m
Store to Packaging Unit	160 m
Packaging Unit to Research Lab	60 m
Accounts to Packaging Unit	125 m
Store to Research Lab	180 m

Number of computers:

Accounts	25
Research Lab	100
Store	15
Packaging Unit	60

As a network expert, provide the best possible answer for the following queries:

(i) Suggest the type of network established between the buildings.

(ii) Suggest the most suitable place (i.e., building) to house the server of this organization.

(iii) Suggest the placement of the following devices with justification:

(a) Repeater (b) Hub/Switch

(iv) Suggest a system (hardware/software) to prevent unauthorized access to or from the network.

(c) Expand the following:

2

(i) VOIP

(ii). SMTP

(iii)

GSM

(iv) WLL



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def display(x=2,y=3):
    x=x+y
    y += 2
    print(x,y)
display()
display(5,1)
display(9)

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- Q5 (a) Write a function that receives two numbers and generates a random number from that range and prints it. 2
- (b) Write a recursive function that takes a positive integer and calculate and return the factorial of passing argument. 2
- (c) Write a program having a function that takes a number as argument and calculates cube for it. The function does not return a value. If there is no return value passed to the function in function call, the function should calculate cube of 2. 2
- Q6.(a) Differentiate between digital certificate and digital signature? 2
- (b) What are Intellectual Property Right(IPR)? 2
- (c) What is cyber forensics? What is its use? 2
- (d) How does phishing happen? 1
- (e) What do you understand by the following? 2
- (i) Cyber bullying (ii) cookies
- (f) Define and name some open source software? 1