UPES
UNIVERSITY WITH A PURPOSE

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
Online End Semester Examination, January 2021

Course: Computer Fundamentals   **Semester: I**
Program: BCA   **Time 03 hrs.**
Course Code: CSBC1001   **Max. Marks: 100**

Instructions: Students are supposed to assume any missing data and give examples wherever applicable.

SECTION A [30 Marks]
1. Each Question will carry 5 Marks
2. Instruction: Complete the statement / Select the correct answer(s)

S. No.	Question	CO
Q1.	_____ is the file extension of MSWord 2016 a. *.docx b. *.docs c. *.doc d. *.doxc	**CO1**
Q2.	A Computer System can also boot without any_____ a. Hard disk b. RAM c. OS d. Electric power	**CO1**
Q3.	_____ automatically assigned to my computer when I connect it to my mobile's hotspot. a. IP address. b. Wi-Fi Connection c. Website d. All	**CO2**

Q4.	_____ is a type of software embedded in computer hardware. a. Firmware. b. Device drivers c. Kernel d. System files	**CO2**
Q5.	_____ is an example of utility software. a. Scandisk. b. Android c. Compiler d. Ubuntu	**CO3**
Q6.	_____ command is used in UNIX to check the files in a directory a. ls b. dir c. show d. files	**CO4**

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SECTION B [50 Marks]
1. Each question will carry 10 marks
2. Instruction: Write short / brief notes (Scan and Upload)
Note*: Attempt any one question of Q11

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<tr><td>Q7.</td><td>What is the significance of Cache Memory in a Computer System? Explain different types of Computer Memory with details.</td><td>**CO1**</td></tr>
<tr><td>Q8.</td><td>Briefly explain the evolution of Computer Generations. Write down the specification of your computer machine (Laptop).</td><td>**CO2**</td></tr>
<tr><td>Q9.</td><td>What is the role of an Operating System during booting a system? Write down any five different Operating Systems as an example.</td><td>**CO3**</td></tr>
<tr><td>Q10.</td><td>Distinguish between Guided and Unguided media of Computer Network. Which one will you prefer and why?</td><td>**CO3**</td></tr>
<tr><td>Q11.</td><td>What is DDL and DML in a Database Management System?</td><td></td></tr>
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	OR	**CO4**
	What are Graphical User Interface and Command Line Interface Operating Systems? Give examples of any five OS along with any 5 basic commands of UNIX/LINUX operating system.	

SECTION-C [20 Marks]

1. Each Question carries 20 Marks.
2. Instruction: Write long answer. Give suitable examples/references where applicable (Scan and Upload)

Note*: Attempt any one question of Q12

<u>Impacts of COVID-19 on the Information Technology (IT) Industry</u>

Covid-19 is one of the worst crisis humankind is facing today. It has been a long time since the last human disaster, and we are still unsure how long this pandemic will last. Innumerable people are losing lives around the world every minute, but the world economy has been severely crippled.

While the impact of Covid-19 has been severe in many advanced countries, including America, India, UK, Italy, Spain, Russia, France, and Germany, it has also been devastating to the rest of Europe. Many sectors, especially related to tourism, have been completely devastated. Hotels and restaurants, aviation, cabs are among the worst affected.

As per **HDFC securities,** IT sector revenue will see a cut of 2-7 percent due to a delay in decision making in the next six months while businesses assess the impact of the virus. Customers expect to reduce their IT budgets and slow down new initiatives due to the fear of uncertain economic situation and recession.

Infinite future in the IT industry

There are many reasons for the IT industry to gallop at a faster clip than ever before. The world has seen that the internet has been the savior that kept businesses alive. It helped people stay connected to their families and friends. It helped companies remain active during these unprecedented times as employees are working from home. Children are attending school classes remotely. People are consulting doctors online.

Then grocery apps helped people order their monthly supplies online. This is an example of how technology has changed the way we live, work, and play. Online payment apps like Google Pay and Paytm have made life easier for people. They also help us save money by conveniently making payments.

The governments across the world, including India, are preponing roll out of 5G technology. This will further give impetus to telemedicine in India. 5G will also provide a fillip for Smart Cities across the country. IT is and will remain the most significant enabler in the country's growth and development.

CO4

Q12.	**Student must review the above comprehension and answer the following.** Illustrate briefly the Impact of COVID19 on education sector. What IT services will you suggest and prefer for smooth functioning of learning and teaching during Pandemic situations like that of COVID19 Lockdown? Student can provide any reference and examples of the online tools available and/or used during their own teaching learning methodology.	
OR	
Q12.	We live in a time when much of our lives, personal and professional, reside online. We do our banking, music purchases, bill paying, social planning, and even parts of our job, in the digital world. This increased reliance on the internet and digital networks brings risks along with the convenience it provides. Online criminals, hackers, even just bored mischief-makers lurk in the shadows, waiting to rob you, commit fraud, steal your identity, or simply embarrass you. Therefore, digital information security is of paramount concern. **Student must review the above comprehension and answer the following.** What are the online threats in today's digital World. How can we secure ourselves from such types of threats and frauds? Students are supposed to emphasize on online threats and its effect. They must also suggest the various ways to secured with digital frauds and threats.	