



**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**

**End Semester Examination, December 2021**

**Course:** Technology Management

**Semester:** III

**Program:** MBA (Operations)

**Duration:** 3 Hrs.

**Course Code:** LSCM 8019

**Max. Marks:** 100

**Instructions:** Do as directed in each section.

Q.1	Section A (Answer all questions)	20 Marks	COs
(i)	Technology supports _____ activities of a value chain. a) core b) supporting c) both core and support	2	CO1
(ii)	Brainware deals with _____. [Know-what / Know-how / Know-why]	2	
(iii)	Appropriate technologies need not absorb large labor force. [True / False]	2	
(iv)	Appropriate technology is always accepted by political systems. [True/False]	2	
(v)	Technology assessment and technology evaluation are same. [True/False]	2	
(vi)	Technology assessment includes <i>testing of technology</i> . [True/False]	2	
(vii)	Technology platform is a layout for _____. [hardware/software/both]	2	
(viii)	Operating system is a computing technology platform. [True/False]	2	
(ix)	Technology architecture specifies the _____ used throughout the system. a) hardware b) software c) protocols d) all of the above	2	
(x)	Figure of merit results when similar technologies are used in different applications. [True/False]	2	
Q.2	Section B (Answer all questions)	20 Marks	COs
(i)	Explain the role of technologies in a value chain.	5	CO1
(ii)	Explain various dimensions of technology management.	5	CO1
(iii)	Explain the types of technologies along with the basis of classification.	5	CO2

(iv)	Compare the contexts in which different technologies are seen as a good use or an abuse.	5	CO2
<b>Q.3</b>	<b>Section C</b> <b>(Answer all questions)</b>	<b>30</b> <b>Marks</b>	<b>COs</b>
(i)	Explain the role of technology in services with special focus on ‘information technology’.	10	CO2
(ii)	List the criteria of appropriate technologies and explain them with their applications.	10	CO2
(iii)	What are the analysis done behind the selection of technologies? <b>OR</b> Can a technology be treated as a product. Consider the technology and the market interaction by bringing TLC and PLC side by side.	10	CO3
<b>Q.4</b>	<b>Section D</b> <b>(Answer all questions)</b>	<b>30</b> <b>Marks</b>	<b>COs</b>
(i)	Write short notes in the light of digital transformation of a company: <ul style="list-style-type: none"> <li>• Technology acquisition</li> <li>• Technology infrastructure</li> <li>• Competitive advantage of technology</li> </ul>	15	CO4
(ii)	Technology and Sustainability mutually reinforce positively – Justify it special reference to digital transformations of industry 4.0. <b>OR</b> Explain how a new technology is assessed systematically for a specific application.	15	CO4