

Total No. of Questions: 6

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Enrollment No.....



Faculty of Engineering
End Sem (Odd) Examination Dec-2022
EN3HS01 History of Science & Technology

Programme: B.Tech.

Branch/Specialisation: All

Duration: 3 Hrs.

Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

- Q.1 i. The first missile which has been developed in India was- **1**
(a) Akash (b) Prithvi (c) Agni (d) Trishul
- ii. Which of the following is NOT an antivirus? **1**
(a) Kasperky (b) Norton (c) Linux (d) Avast
- iii. Who is the current chairman of ISRO? **1**
(a) S. Somnath (b) Dr. K. Sivan
(c) G. Satheesh Reddu (d) A.S. Kiran Kumar
- iv. CSIR stands for- **1**
(a) Corporate Sector Information Resources
(b) Corporate Social Industrial Reforms
(c) Council of Scientific and Industrial Research
(d) Council of Science and Information Research
- v. India's first indigenous supercomputer developed by Dr. Vijay Bhatkar was named as- **1**
(a) Pragati 5000 (b) Prayog 2000
(c) Param 8000 (d) Prayas 3000
- vi. First five-year plan in India was from- **1**
(a) 1947-1952 (b) 1949-1954
(c) 1950-1955 (d) 1951-56
- vii. Which among the following are India's permanent and operational research stations in Antarctica? **1**
(a) Bharati and Arya (b) Bharati and Dakshin Gangotri
(c) Bharati and Maitri (d) Dakshin Gangotri and Maitri

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[2]

viii.	Which is India's first artificial satellite?	1
	(a) Bhaskara (b) INSAT	
	(c) Aryabhata (d) Rohini	
ix.	Intellectual Property Rights (IPR) protect the use of information and ideas that are of-	1
	(a) Ethical value (b) Moral value	
	(c) Social value (d) Commercial value	
x.	In the technology transfer process what comes after discovers?	1
	(a) Marketing (b) Disclosure	
	(c) Assessment (d) Protection	
Q.2	Attempt any two:	
i.	Discuss the impact of science and technology in the growth and development of any country.	5
ii.	Explain the contrast and connection between science and faith in context of Indian society.	5
iii.	Scientists are the backbone of any country. Justify the statement.	5
Q.3	Attempt any two:	
i.	Discuss the significance of various programs aimed at technological self-reliance under promotion of technology development in India.	5
ii.	Discuss the role of CSIR for the development of modern India in the sphere of R&D.	5
iii.	Explain the contribution of various public sector units in the growth the country.	5
Q.4	Attempt any two:	
i.	Explain the paradigm change in the field of science and technology in India after Independence.	5
ii.	What is the role of Five-year plans and NITI Aayog in the development of science and technology in India.	5
iii.	Write a short note on Nehru's vision of science for independent India.	5

[3]

Q.5	Attempt any two:	
i.	Discuss the state of research and development in the field of green energy in India.	5
ii.	Explain INSAT system and INSAT services along with the remote sensing applications.	5
iii.	Write a short note on global warming and its impact on the society.	5
Q.6	Attempt any two:	
i.	Describe various types and methods of transfer of technology.	5
ii.	Explain technology assessment and technological forecasting in detail.	5
iii.	Discuss various barriers of technological change in global scenario.	5
