

Enrollment No.....



Faculty of Engineering / Science

End Sem Examination May-2024

EN3HS01 / BC3HS03 History of Science & Technology

Programme: B.Tech. / B.Sc.

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. Assume suitable data if necessary. Notations and symbols have their usual meaning.

- Q.1 i. Charak was known for his contribution in the field of- **1**
 (a) Ayurveda (b) Plastic surgery (c) Metallurgy (d) None of these
- ii. Which country approved the world's first therapy for prevention of type 1 diabetes? **1**
 (a) India (b) USA (c) Germany (d) UK
- iii. Indian Institute of Remote Sensing (IIRS) is set to develop Spatial Data Infrastructure geoportal in which state/UT? **1**
 (a) Andhra Pradesh (b) Ladakh
 (c) Sikkim (d) Maharashtra
- iv. What is the name of the Indigenous mobile operating system developed by IIT Madras? **1**
 (a) IndOS (b) BharOS (c) MadrasOS (d) TamilOS
- v. What was brought in place of the planning commission in 2014? **1**
 (a) NITI Aayog (b) Stand Up India Scheme
 (c) NABARD (d) SEBI
- vi. When was the first five-year plan implemented? **1**
 (a) 1928 (b) 1922 (c) 1924 (d) 1926
- vii. APJ Abdul Kalam Satellite Launch Vehicle Mission-2023 was launched from which state? **1**
 (a) Maharashtra (b) Goa
 (c) Tamil Nadu (d) Karnataka
- viii. Yuva Vigyani Karyakram (YUVIKA) is a young scientist programme organized by which institution? **1**
 (a) NITI Aayog (b) ISRO (c) DRDO (d) BARC
- ix. In technology transfer process after disclosure which step is taken- **1**
 (a) Discovery (b) Evaluation (c) Marketing (d) Licensing

[2]

- x. What are the major problem that are faced at the time of technology transfer? **1**
 (a) Lack of experience (b) Lack of communication
 (c) Lack of infrastructure (d) All of these
- Q.2 Attempt any two: **5**
 i. Explain the importance of science and technology in the development of any society and country. **5**
 ii. Explain the contrast and connection between science and faith in context of Indian society. **5**
 iii. Discuss the roots of science and technology in India in historical perspective. **5**
- Q.3 Attempt any two: **5**
 i. Explain various activities and schemes started for the 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. Comment on the status of science and technology education in the country. Also discuss the parameters of evaluation. **5**
- Q.4 Attempt any two: **5**
 i. What was Nehru's vision of science for independent India? **5**
 ii. Explain the role of NITI Aayog in the development of science and technology in India. **5**
 iii. Comment on the success and failures of five years programs over the last few decades. **5**
- Q.5 Attempt any two: **5**
 i. Discuss the state of research and development in the field of launch vehicle technology in India. **5**
 ii. Explain INSAT system and INSAT services along with the remote sensing applications. **5**
 iii. Write a short note on green energy and its impact on the society. **5**
- Q.6 Attempt any two: **5**
 i. Discuss the importance of transfer of technology in the present scenario. **5**
 ii. Explain technology assessment and technological forecasting in detail. **5**
 iii. Discuss various barriers of technological change in global scenario. **5**

Marking Scheme

BC3HS03/EN3HS01 (T) History of Science and Technology

Q.1	i.	A	1
	ii.	B	1
	iii.	B	1
	iv.	B	1
	v.	A	1
	vi.	A	1
	vii.	C	1
	viii.	B	1
	ix.	B	1
	x.	D	1
Q.2	i.	Explain the importance of science and technology in the development of any society and country. 1 mark for each point	5
	ii.	Explain the contrast and connection between science and faith in context of Indian society. 1 mark for each point	5
OR	iii.	Discuss the roots of science and technology in India in historical perspective. 1 mark for each point	10
Q.3	i.	Explain various activities and schemes started for the promotion of technology development in India. 1 mark for each point	5
	ii.	Discuss the role of CSIR for the development of modern India in the sphere of R&D. 1 mark for each point	5
OR	iii.	Comment on the status of Science and Technology Education in the country. Also discuss the parameters of evaluation. 1 mark for each point	10
Q.4	i.	What was Nehru's vision of science for independent India? 1 mark for each point	5
	ii.	Explain the role of NITI Aayog in the development of science and	5

		technology in India. 1 mark for each point	
OR	iii.	Comment on the success and failures of five years programs over the last few decades. 1 mark for each point	10
Q.5	i.	Discuss the state of Research and development in the field of Launch Vehicle Technology in India. 1 mark for each point	5
	ii.	Explain INSAT system and INSAT services along with the remote sensing applications. 1 mark for each point	5
OR	iii.	Write a short note on green energy and its impact on the society. 1 mark for each point	10
Q.6		Attempt any two:	
	i.	Discuss the importance of transfer of technology in the present scenario. 1 mark for each point	5
	ii.	Explain Technology assessment and Technological forecasting in detail. 1 mark for each point	5
	iii.	Discuss various barriers of technological change in global scenario. 1 mark for each point	5
