

Program: B.Sc.E.E.E. 4th Semester
Semester: Summer

Date: May 17, 2024 (Friday)
Time: 10:00 am – 01:00 pm

ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)
 ORGANISATION OF ISLAMIC COOPERATION (OIC)
 DEPARTMENT OF TECHNICAL AND VOCATIONAL EDUCATION (TVE)

Exam: Semester Final Examination
Course Number: Hum 4421
Course Title: Science Technology and Islam

Academic Year: 2022–2023
Full Marks: 100
Duration: 3 Hours

There are 6 (six) questions. Answer them all. The symbols have their usual meaning.

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| 1. | a) | "We sent down Iron, in wherein is mighty power, as well as many benefits for mankind, that Allah may test who it is that will help unseen, Him and His messengers." Justify the verse and describe the miracle of iron mentioned in the Holy Qur'an. | 08 | CO1 | PO8 |
| | b) | Illustrate the significant achievements and role of Muslim Scientists in the field of Astronomy. | 08 | CO3 | PO6 |
| 2. | a) | "And it is He who sends the winds as glad tiding of His mercy". Explain Meteorological indications in the Holy Qur'an. | 08 | CO2 | PO8 |
| | b) | "Have you not regarded that Allah drives the clouds, then He joins them together, then He loads them up, where at you see the rain comes from its midst"- explain the verse describing the stages of formation of cloud and showering rain. | 08 | CO2 | PO6 |
| 3. | a) | "And we send down of the Quran that which is a healing and mercy to those who believe." Describe the indications laid down on medical science and embryology in the Holy Qur'an. | 08 | CO2 | PO6 |
| | b) | Salat and Sawm are highly emphasized by Allah SWT and His Messengers for our immense benefits. Illustrate some scientific benefits of Salat and Sawm. | 08 | CO3 | PO8 |
| 4. | a) | You might know that initial generations of scientists were mostly Muslims. Describe the contributions of Muslim Scientists to Geography. | 08 | CO3 | PO6/
PO8 |
| | b) | Evaluate the contributions of scientist Ibn Al-Baytar in the field of Botany. | 08 | CO4 | |
| 5. | a) | Describe the achievements of Hasan Ibnul Haytham in the field of Physics. Why is he known as the 'Father of Optics'? | 08 | CO4 | PO6/
PO8 |
| | b) | Prove that the Muslim Scientists were first to discover the Laws of Motion. | 08 | CO4 | |
| 6. | a) | Discuss the contributions of Jabir Ibn Hayyan in Chemistry. Why is he called the 'Father of Islamic Alchemy'? | 10 | CO4 | PO6/
PO8 |
| | b) | Who was Muhammad Ibn Musa Al-Khawarizmi? Illustrate his contribution in science especially in Mathematics and Astronomy. | 10 | CO3 | |