

Program: B.Sc. ME & IPE 3rd Semester
Semester: Winter

Date: 09 December, 2023 (Saturday)
Time: 09: 00 am – 12: 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 4317
Course Title: Science Technology and Islam

Academic Year: Summer 2022 – 2023
Full Marks: 150
Duration: 3 Hours

There are 8 questions. Answer any 6 (six) questions. 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." Describe some scientific indications about Chemistry in the Holy Qur'an. | 12 | CO1 | |
| b) | Illustrate the significant achievements and role of Muslim Scientists in the field of Astronomy. | 13 | | 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. | 12 | CO2 | |
| b) | "Have you not regarded that Allah drives the clouds, then He joins them together, then He loads them up, whereat you see the rain comes from its midst"- explain the verse describing the stages of formation of cloud and showering rain. | 13 | | PO6/
PO8 |
| 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. | 12 | CO2 | |
| 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. | 13 | | PO6/
PO8 |
| 4. a) | You might know that initial generations of scientists were mostly Muslims. Describe the contributions of Muslim Scientists to Geography. | 12 | CO3 | PO6/
PO8 |
| b) | Evaluate the contributions of scientist Ibn Al-Baytar in the field of Botany. | 13 | | |
| 5. a) | Describe the achievements of Hasan Ibnul Haytham in the field of Physics. Why is he known as the 'Father of Optics'? | 12 | CO3 | PO6/
PO8 |
| b) | Prove that the Muslim Scientists were first to discover the Laws of Motion. | 13 | | |
| 6. a) | Discuss the contributions of Jabir Ibn Hayyan in Chemistry. Why is he called the 'Father of Islamic Alchemy'? | 12 | CO4 | PO6/
PO8 |
| b) | Who was Muhammad Ibn Musa Al-Khawarizmi? Illustrate his contribution in science especially in Mathematics and Astronomy. | 13 | | |
| 7. a) | Discuss the contributions of Muhammad Ibn Zakaria al-Razi in the field of Medicine. | 12 | CO4 | PO6/
PO8 |
| b) | Who was Ibn Sina? Describe his contribution in Medicine. Why he is called the 'Father of early modern medicine'? | 13 | | |
| 8. a) | "Oh You Who Believe! Indeed, wine, gambling, idols, and divining arrows are evil and of Satan's act; therefore, leave them aside in order that you may prosper"- Describe the harmful effect of Haram for health with scientific view. | 12 | CO4 | PO6/
PO8 |
| b) | You might know that Muslim scientists were leading the world in the field of science and technology many centuries. Describe the contributions of Muslim Scientists to Mathematics. | 13 | | |