

15

Program: B.Sc. ME 3<sup>rd</sup> Sem & IPE 3<sup>rd</sup> Sem  
Semester: Winter semester

Date: 11 October, 2023 (Wednesday)  
Time: 10:30 a.m. – 12:00 p.m.

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

Examination: Mid Semester  
Course Number: Hum 4317  
Course Title: Science Technology and Islam

Academic Year: 2022 – 2023  
Full Marks: 75  
Time: 90 minutes

There are 4 (Four) questions. Answer any 3 (three) of them.

1. a. "Read, 'O Prophet' in the Name of your Lord Who created (all things) —. Created humans from a clinging clot". Based on the above quotation, derive the message for human beings on the importance of acquiring knowledge and understanding the process of learning in science and technology. 10
- b. Describe the view of The Qur'aan about the expansion of the Universe that are affecting our planet and ecosystem. 09 CO1, CO2 PO9/ PO10
- c. "Every being on earth is bound to perish. Only your Lord Himself, full of Majesty and Honor, will remain forever". State the theory Big-Crunch and relate the above statement. Write as clearly as appropriate. 06
2. a. "It is not for the sun to catch up with the moon, nor does the night outrun the day. Each is travelling in an orbit of their own." With reference to the above statement, discuss how the perfect balance of the universe was created and is being maintained. 10 CO1, CO2 PO10
- b. Describe the stages of the evolution of the Universe. 09 CO2
- c. Illustrate the concept of "atmospheric pressure" and mention the verses of The Qur'aan related to that. 06
3. a. "We did not create the heavens and the Earth and everything between them, except with truth". Discuss the scientific indications about Astronomy in The Holy Quran. 10 CO1, CO2, CO5 PO6/ PO7
- b. "Everything created in pairs"- Explain the statement with reference from The Holy Qur'aan and scientific opinion. 09 CO2, CO5
- c. "Allah made the mountains as Pegs"-explain the statement with a scientific view. 06
4. a. Physics is a part of natural science, which mainly focuses on energy and forces. Now, "Indeed, Allah created everything and has power over all things forever". Describe why forces and energies are so important in His creation for our sustainable existence on earth. 10 CO1, CO2, CO5 PO6/ PO7
- b. Allah created every living creature from water, and three-fourth of the earth contains water. Being an engineering student, highlight the importance of water for engineering applications. 09 CO2, CO5
- c. "Verily We created man from a product of wet earth then placed him as a drop in a safe lodging." Based on the verse, illustrate the stages of embryo development in the light of the Holy Quran. 06