

Ref No: Ex/ ME/5/HUM/T/421/2024

Bachelor of Engineering in Mechanical Engineering (Evening) Examination 2024

4th Year 2nd Semester

Subject: Humanities

Total Marks: 100

Time Allotted: 3hours

SECTION A: SOCIOLOGY

Multiple Choice Questions: (1x10=10)

1. Sociology is the study of:

- (i) Society
- (ii) Science
- (iii) Geography
- (iv) Education

2. What is the dividing of people in a society on the basis of differentiation, inequality and hierarchy?

- (i) Social classification
- (ii) Social stratification
- (iii) Social differentiation
- (iv) Hierarchy

3. Who are the prominent sociologists mainly analyzed the functionalist perspective of social stratification?

- (i) Kingsley Davis & Wilbert E Moore
- (ii) Ghurye & Thomas Moore

[Turn over

(iii) Max Weber & Karl Marx

(iv) Parson & Coser

4. Who amongst these Sociological thinkers gave the Conflict Theory?

- (i) Karl Marx
- (ii) Max Weber
- (iii) GH Mead
- (iv) None of the above

5. Sociology is composed of two words. 'Socius' meaning _____ and 'logos' meaning _____.

6. The Industrial Revolution took place in

- (i) England
- (ii) India
- (iii) Mexico
- (iv) America

7. In the history of the development of sociology, _____ is known as a period of remarkable intellectual development and change in philosophical thought.

- (i) Industrial revolution
- (ii) Period of enlightenment
- (iii) Urbanization
- (iv) Religious change

8. How can we reduce unequal access in technology?

- (i) Provide access to the internet at a cheaper cost or for free
- (ii) Using more local/ vernacular language
- (iii) Providing digital education
- (iv) All of the above

9. Which Sociologist defined the term 'post-industrial society?'

- (i) Daniel Bell
- (ii) Karl Marx
- (iii) Judith Butler
- (iv) None of the above

10. The capitalist society is divided into two classes namely:

- (i) The Bourgeoisie and Proletariats
- (ii) The Rich and Poor
- (iii) The Zamindar and Jagirdars
- (iv) None of the above

B. Short answer questions (2x10= 20)

1. Define Sociology
2. What is the inter-relationship between Sociology and History?
3. Define Social Stratification with suitable examples
4. How do Ogburn and Nimkoff define social stratification?
5. Define work
6. Write in short the impact of Industrial and French Revolution on the development of Sociology in the 19th Century.
7. Write any two features of Post-Industrial society
8. Why do you think technology is necessary in our society?
9. What is the nature of Sociology?
10. What is the impact of technology on education?

C. Answer ANY FOUR Questions (5x4=20)

1. What are the negative impacts of technology?

2. How do symbolic interaction theorists view social problems?
3. Elaborate on the scope of Sociology
4. What are the four sub-processes of social stratification? Write each one in detail.
5. What is Sociology of Work? What are the varieties of Work?
6. According to T.B Bottomore what are the four forms of social stratification? Write in detail.

SECTION B: ENGLISH

All questions are COMPULSORY

COMPREHENSION (15X 2=30)

PASSAGE A:

In the 16th century, an age of great marine and terrestrial exploration, Ferdinand Magellan led the first expedition to sail around the world. As a young Portuguese noble, he served the king of Portugal, but he became involved in the quagmire of political intrigue at court and lost the king's favor. After he was dismissed from service by the king of Portugal, he offered to serve the future Emperor Charles V of Spain.

A papal decree of 1493 had assigned all land in the New World west of 50 degrees W longitude to Spain and all the land east of that line to Portugal. Magellan offered to prove that the East Indies fell under Spanish authority. On September 20, 1519, Magellan set sail from Spain with five ships. More than a year later, one of these ships was exploring the topography of South America in search of a water route across the continent. This ship sank, but the remaining four ships searched along the southern peninsula of South America. Finally they found the passage they sought near 50 degrees S latitude. Magellan named this passage the Strait of All Saints, but today it is known as the Strait of Magellan.

One ship deserted while in this passage and returned to Spain, so fewer sailors were privileged to gaze at that first panorama of the Pacific Ocean. Those who remained crossed the meridian now known as the International Date Line in the early spring of 1521 after 98 days on the Pacific Ocean. During those long days at sea, many of Magellan's men died of starvation and disease.

Later, Magellan became involved in an insular conflict in the Philippines and was killed in a tribal battle. Only one ship and 17 sailors under the command of the Basque navigator Elcano survived to complete the westward journey to Spain and thus prove once and for all that the world is round, with no precipice at the edge.

A1. The 16th century was an age of great _____ exploration.

1. cosmic
2. land
3. mental
4. common man
5. None of the above

A2. Magellan lost the favor of the king of Portugal when he became involved in a political _____.

1. entanglement
2. discussion
3. negotiation
4. problem
5. None of the above

A3. The Pope divided New World lands between Spain and Portugal according to their location on one side or the other of an imaginary geographical line 50 degrees west of Greenwich that extends in a _____ direction.

1. north and south
2. crosswise
3. easterly
4. south east
5. north and west

A4. One of Magellan's ships explored the _____ of South America for a passage across the continent.

1. coastline
2. mountain range
3. physical features
4. islands
5. None of the above

A5. Four of the ships sought a passage along a southern _____.

1. coast
2. inland
3. body of land with water on three sides
4. border
5. Answer not available

A6. The passage was found near 50 degrees S of _____.

1. Greenwich
2. The equator
3. Spain
4. Portugal
5. Madrid

A7. In the spring of 1521, the ships crossed the _____ now called the International Date Line.

1. imaginary circle passing through the poles
2. imaginary line parallel to the equator
3. area
4. land mass
5. Answer not available

PASSAGE B:

Marie Curie was one of the most accomplished scientists in history. Together with her husband, Pierre, she discovered radium, an element widely used for treating cancer, and studied uranium and other radioactive substances. Pierre and Marie's amicable collaboration later helped to unlock the secrets of the atom.

Marie was born in 1867 in Warsaw, Poland, where her father was a professor of physics. At an early age, she displayed a brilliant mind and a blithe personality. Her great exuberance for learning prompted her to continue with her studies after high school. She became disgruntled, however, when she learned that the university in Warsaw was closed to women. Determined to receive a higher education, she defiantly left Poland and in 1891 entered the Sorbonne, a French university, where she earned her master's degree and doctorate in physics.

Marie was fortunate to have studied at the Sorbonne with some of the greatest scientists of her day, one of whom was Pierre Curie. Marie and Pierre were married in 1895 and spent many productive years working together in the physics laboratory. A short time after they discovered radium, Pierre was killed by a horse-drawn wagon in 1906. Marie was stunned by this horrible misfortune and endured heartbreaking anguish. Despondently she recalled their close relationship and the joy that they had shared in scientific research. The fact that she had two young daughters to raise by herself greatly increased her distress.

Curie's feeling of desolation finally began to fade when she was asked to succeed her husband as a physics professor at the Sorbonne. She was the first woman to be given a professorship at the world-famous university. In 1911 she received the Nobel Prize in chemistry for isolating radium. Although Marie Curie eventually suffered a fatal illness from her long exposure to radium, she never became disillusioned about her work. Regardless of the consequences, she had dedicated herself to science and to revealing the mysteries of the physical world.

B1. The Curies' _____ collaboration helped to unlock the secrets of the atom.

1. friendly
2. competitive
3. courteous
4. industrious
5. chemistry

B2. Marie had a bright mind and a _____ personality.

1. strong
2. lighthearted
3. humorous

4. strange
5. envious

B3. When she learned that she could not attend the university in Warsaw, she felt _____.

1. hopeless
2. annoyed
3. depressed
4. worried
5. None of the above

B4. Marie _____ by leaving Poland and traveling to France to enter the Sorbonne.

1. challenged authority
2. showed intelligence
3. behaved
4. was distressed
5. Answer not available

B5. _____ she remembered their joy together.

1. Dejectedly
2. Worried
3. Tearfully
4. Happily
5. Irefully

B6. Her _____ began to fade when she returned to the Sorbonne to succeed her husband.

1. misfortune
2. anger
3. wretchedness
4. disappointment
5. ambition

B7. Even though she became fatally ill from working with radium, Marie Curie was never _____.

1. troubled
2. worried
3. disappointed
4. sorrowful
5. disturbed

C. What is the full form of CV? Create a CV for job role for an 'Office Assistant' (10)

D. Write a letter to your manager requesting for leave due to a family function (10)