

**24. Christian approaches to selected issues related to modern science ,
Technology and Environment.**

1.
 - (a) *six main causes of desertification in Kenya.*
 - (i) *Insufficient or unreliable rainfall which cannot support plants and animals making land desolate.*
 - (ii) *Interference of human beings with ecosystem which has led to climate changes resulting in less rainfall and higher temperatures.*
 - (iii) *Imbalances in the factors that favour growth of vegetation.*
 - (iv) *Deforestation or cutting down trees.*
 - (v) *Overgrazing, especially among pastoralist communities.*
 - (vi) *Continual loss of fertile land on the fringe of deserts due to human encroachment.*
 - (vii) *Poor farming methods like cultivation on riverbanks and slopes which causes soil erosion which leads to desertification.*
 - (b) *Why Christians condemn euthanasia.*
 - (i) *The Ten Commandments forbids killing.*
 - (ii) *It is a form of suicide.*
 - (iii) *It shows lack of faith in God.*
 - (iv) *It is contrary to the teachings of Jesus Christ in restoration of life.*
 - (v) *It is a rebellion against God and rejection of God.*
 - (vi) *It deprives relatives, friends, nurses and doctors willingness of giving loving care to the dying persons.*
 - (vii) *It discourages medical research on vaccines.*
 - (c) *four reasons which compel doctors to assist one commit abortion.*
 - (i) *When life of a mother is in danger.*
 - (ii) *If conception is out of rape.*
 - (iii) *When the child to be born is having complication.*
 - (iv) *When child to be born has contracted is incurable*
2.
 - (a) *Ways in which a Christian can contribute to the conservation of the environment.*
 - (i) *A Christian should understand that environment was created and sanctified by God hence should be kept Holy.*
 - (ii) *Teach others the importance of preserving the environment.*
 - (iii) *Make contributions towards the conservation of environment e.g. planting trees/ build gabions etc.*
 - (iv) *Join others i.e. tree planting day.*
 - (v) *Not to participate on activities leading to destruction of the environment.*
 - (b) *Five advantages of genetic engineering to mankind.*
 - (i) *It has increased the rate of growth and maturity of livestock beneficial to human beings in livestock products.*
 - (ii) *It has added research in manufacture of human growth hormones.*
 - (iii) *It increases diseases resistance in crops.*
 - (iv) *Helps to identify / determine biological / parent of a child.*
 - (v) *Increase in plant and animal yields for the benefit of over increasing human population.*

- (c) Five ways modern science and technology undermine Christian teaching on respect to life.
- (i) People are able to carry out abortions which lead to death of unborn/ not the mothers life / mercy killing/ euthanasia
 - (ii) Cloning / test tube babies undermine human sexuality.
 - (iii).Machines / fertilizers pollute the environment thus endangering the lives of human beings.
 - (iv) Vasectomy / tubal ligation undermines God's purpose for procreation.
 - (v) Weapons of mass destruction lead to loss of life.
 - (vi) Human beings have been rendered jobless due to modern science and technology.
 - (vii) Accidents caused by machines and vehicles lead to loss of lives.
 - (viii) Organ transplant/ plastic surgery undermine God's creation.

3. ways through which Christians can help control desertification
- i. Participate in a forestation and reforestation programmes
 - ii. Educate the public on ways of controlling and protecting forests
 - iii. Help to strengthen ones
 - iv. Use alternative energy sources like biogas, solar, wind
 - v. Avoid cutting of trees
 - vi. Report cases of forest destruction for authority command
 - vii. Practice better farming techniques that do not promote desertification
 - viii. Irrigating land through irrigation and planting of trees
4. a) Give seven reasons why Christians are against Euthanasia
- i. It demeans the sanctify of life. It is murder. Only God can take away life
 - ii. Euthanasia destroys life which has potential that is unknown to the patient, doctor or family members
 - iii. Those who suffer severe pain and incurable diseases should accept the condition humbly than resort to Euthanasia
 - iv. One should seek God's will instead of taking matters into their own hands
 - v. Euthanasia discourages scientific research into the cure of incurable diseases i.e. cancer
 - vi. Clinically depressed people can be visited, comforted and played for and treated with medicine and hence avoid Euthanasia
 - vii. Euthanasia can increase cases of suicide
 - viii. Euthanasia can discourage patients and make them lose hope in life as they feel rejected by those who are supposed to care for them
- b) The negative impact of deforestation on the environment
- i. Loss of locally available products such as fruits; honey and herbs
 - ii. Threat to continued supply of wood products
 - iii. Destruction of forests which attract rain
 - iv. Soil erosion caused by rapid run-off of rain- water accelerate deforestation
 - v. Increase in global carbon build-up in the atmosphere causes global warming and green house effect
 - vi. Extinction of certain species of plants and animals
 - vii. There is destruction of natural beauty
5. (a) Seven ways in which science and technology has contributed to the spread f the Gospel today are:

- ◆ *Printing press has been used to produce Christian literature /Bible*
- ◆ *The production of cassettes with Christian songs*
- ◆ *The use of public systems/microphones has enhanced evangelization zeal*
- ◆ *The introduction of Braille had enabled the blind to read Christian messages*
- ◆ *The use of cell phones /e-mail/internet to spread the gospel*
- ◆ *The presence of large modern architectural designs/building with ample space for the church*
- ◆ *The use of mass media in broadcasting the gospel*
- ◆ *The production of Christian films*
- ◆ *Modern means of transport that has facilitated the movement of priests/evangelists*

(b) Four ways in which science and technology has promoted promiscuity in the society are;

- ◆ *The use contraceptive devices e.g. pills , condoms*
- ◆ *The use of pornographic materials /literature*
- ◆ *Poor dressing codes*
- ◆ *Presence of lodges*
- ◆ *Presence of night clubs/discotheques*
- ◆ *Induced abortion*
- ◆ *the use of hard drugs e.g. cocaine / mandrax*
- ◆ *Influence from mass media/television*

(c) Reasons why Christians are against Euthanasia are:

- ◆ *It is against medical ethics*
- ◆ *It is against Biblical teachings*
- ◆ *It is murder/it is against God's commandments*
- ◆ *it is against human rights/declarations*
- ◆ *It can also encourage suicidal tendencies when one is healthy*
- ◆ *Those who are stressed should accept suffering as part of Christian suffering*
- ◆ *It discourages medical research on vaccines that may cure various diseases*
- ◆ *A patient may recover after a long period of time/deep coma*

6. *The role science and technology played in the evangelization process (8mks)*

- *electronic media e.g. TV, radio are used to teach goodnews*
- *the public address system is used to preach to a large congregation*
- *modern means of transport/communication ease the movement of evangelists*
- *recorded cassette/CDS/DVDS are used to preach recorded sermons/music etc*
- *modern musical instruments e.g. keyboard are used for accompaniment*
- *computers/printing presses/type writers are used in putting the writings in text intended to reach more people*
- *technology in architecture has enabled churches to put up sanctuaries from where preaching is conducted*
- *churches have used modern technology to equip hospitals for the treatment of the sick*
- *scientific research has enabled evangelist to come up with effective methods in spreading the gospel*

7. *Seven ways in which Christians make use of science and technology to spread the gospel*

- i. Through the use of electronic media e.g. radio, television, video cassettes, cinemas to preach/teach the good news
- ii. Christians use public address systems when preaching to large congregations during Christian crusades, rallies and conventions. They make use of modern means of communication, automobiles, aeroplanes and trains to travel from place to place to preach, teach, evangelize and to send missionaries
- iii. Christians make use of recorded cassettes to preach or for recording gospel music which people can listen to.
- iv. Christians make use of modern musical instruments, electronic guitars, key boards for accompaniment in music
- v. Christians use telephones, fax, postal services that are efficient and fast to stations, country to country which are essential in running of the churches
- vi. Use of typewriters, computers, printing machines has enabled the churches to put messages/teachings in writing so that they can be read by more people or enable them print their literature for wider readership
- vii. Technology in architecture: Building technology has enabled the church not only to put sanctuaries from where to preach to the people but also to put up other complexes e.g. halls, schools offices for the work of the church
- viii. In medicine, the churches have used modern technology to equip the hospitals and modern medicine to treat the sick/ carry out the healing ministry
- ix. Scientific research, innovations in different disciplines which have been adopted by the church and this has contributed to their critically looking at methods and approaches used in spreading the gospel with the intention of changing to modern methods and approaches
- x. The use of modern technology in industry, agriculture and commerce has helped to bring more money to the churches which is essential in spreading the gospel and for work of the church
- xi. The use of modern equipment for leisure e.g. games, chama, social activities, parties has helped enhance the work of the church
- xii. Scientific discoveries and exploitations have gone a long way to affirm and attest the truth of the gospels e.g. archeological discoveries (Any 9 points x 1 mark total 9 marks)

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- a) How science and Technology has helped to improve human life. KKC
- i. Transport /communication has improved social interaction/faster movement.
 - ii. Improved efficiency at work where machine are used.
 - iii. Improved Agricultural development hence increasing food production.
 - iv. Improved human understanding of their environment e.g weather forecasting.
 - v. Brought better healthcare through modern medical technology.
 - vi. Human beings are better placed in security matters by use of radar, alarms and electrical fencing.
 - vii. Led to creation of job opportunities through industrial development.
 - viii. Formal education and training has equipped human beings with new skills for survival.
- b) five reasons why Christians are opposed to the term Abortion in the proposed constitution of Kenya
- i. May promote sexual immoralities
 - ii. May lead to rampant killing of urban children/murder
 - iii. It is disregard to the sacredness of life.

- iv. *May lead to other infections in the reproductive system.*
- v. *May cause death of the mother.*
- vi. *Mother may suffer depression and psychological disturbances because of guilt.*
- vii. *May lead to conflict in marriage.*

c) *seven relationship that exist between the church and the state in Kenya*

- i. *politicians support the church through making monetary contributions for the running of church affairs.*
- ii. *Both have the same goal of ensuring that people live in peace/harmony.*
- iii. *The government through the local councils allocates premises to the church to build worship place.*
- iv. *The church supports the government in fight against corruption and other social evils.*
- v. *Both work together in providing social amenities and creating job opportunities.*
- vi. *Church –state co-operate in offering civic education to enlighten the masses on their duties.*
- vii. *The church nourishes the spiritual growth of its members where as the state is concern with the socio – economic affairs of its citizens.*
- viii. *When the state fails to fulfill its duties to the citizens the church acts as its conscience by rebuking it and offering possible solutions.*
- ix. *Both deal with welfare of the people.*
- x. *Co-operate in tackling many social issues that affects the people.*