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

Mid Semester Examination

Course No: TVE 4203

Course Title: Psychology of Teaching and Learning

Summer Semester (2017-2018)

Time : 90 minutes

Full Marks : 50

There are 4 (four) questions. Answer any 3 (three).
Figures in the right margin indicate marks of the questions.

1. a) Educational psychology is that branch of psychology which deals with teaching and learning (skinner). Elaborate this claim. 8.33
- b) Explain the nature of educational psychology. 8
2. a) Explain the process, and product of learning in technical education. 8
- b) Name the learning theories which are connected with Thorndike's three laws: Law of exercise, law of readiness, and law of effect 3
- c) How *Theory of Thorndike* is linked with education? 5.33
3. a. Explain the advantages and disadvantages of Piaget's theory. 8.33
- b. State two reasons of using the following theories in education sector with its education implications: 8.00
 - (i) Skinner
 - (ii) Pavlov
4. a) Discuss the constructive *learning theory* on the basis of following points: 12
 - learning process;
 - role of a teacher;
 - role of a learner.
- b) Explain *Behaviorism learning theory* with the help of an example that has a link with teaching and learning contexts. 4.33

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Programme: BSc Engg MCE. 2nd Sem

Date: 07 August 2018 Tuesday 2018 (Afternoon)

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

Mid Semester Examination

Course No: Hum 4217

Course Title: Islamic Philosophy and Professional Ethics

Summer Semester (2017-2018)

Time : 1:30 Hours

Full Marks : 75

There are 4 (four) questions. Answer any 3 (three).
Figures in the right margin indicate marks of the questions.

1. a) Explain the Islamic Philosophy regarding the human life. 10
- b) How did our Prophet (Saw) explain *Ihsan*? Discuss the role of *Ihsan* in reconstructing social life. 5
- c) Cite an incident related to ethical values of the early Muslims to clarify *Ihsan*'s role in the rise of the Islamic civilization. 10
2. a) Explain the wisdoms behind the classification of religious obligations and prohibitions in Islam. 10
- b) Discuss the individual and social impact of *salaat* and *zakaat*. 15
3. Should SUV problem at the macro level of concern to engineers as a group and their professional Societies? And should individual automotive engineers in their daily work be concerned about the general social and environmental implications of SUVs? 25
4. Discuss the notion of safe exit, using evacuation plans for communities near nuclear power plants or chemical process plants. 25

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DEPARTMENT OF TECHNICAL AND VOCATIONAL EDUCATION (TVE)

Mid Semester Examination
Course No: HUM 4229
Course Title: Engineering Management

Summer Semester (2017-2018)
Time: 1: 30 hours
Full Marks: 75

There are 4 (four) questions. Answer any 3 (three).
Figures in the right margin indicate marks of the questions.

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|----|----|--|----|
| 1. | a) | What is Engineering Management? | 5 |
| | b) | Explain briefly the four main functions of management? | 10 |
| | c) | Henri Fayol analyzed and observed the events that managers encountered in practice and he synthesized principles of management that serve as a guideline for decision-making and management actions. Discuss any five principle of management according to Henri Fayol? | 10 |
| 2. | a) | Taylor, founder of scientific management, believed that all workers were motivated by money, so he promoted the idea of "a fair day's pay for a fair day's work." Discuss. | 5 |
| | b) | Explain the following study as carried out by Taylo | |
| | | 1) Time Study | 5 |
| | | 2) Motion Study | 5 |
| | | 3) Method Study | 5 |
| | | 4) Fatigue study | 5 |
| 3. | a) | What are the steps that must be taken for effective planning? | 8 |
| | b) | A number of requests have approached the Administration of IUT to install Air-conditioning in classroom. This is as a result of extensive hotness during the day which makes studying environment uncondusive. As an Engineering Management student, you have been selected to help the university. Analyze the problem with the help of "six thinking Hats" | 12 |
| | c) | Briefly explain pareto's 80/20 principle | 5 |
| 4. | a) | Explain the following | 15 |
| | | 1) Theory X | |
| | | 2) Theory Y | |
| | | 3) Intrinsic Motivation | |
| | b) | Motivator-hygiene theory suggests that job satisfaction and dissatisfaction are not two opposite ends of the same continuum, but instead are two separate and, at times, even unrelated concepts. Justify | 10 |

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

Mid Term Examination
Course No: TVE 4235
Course Title: Educational Measurement and Evaluation

Summer Semester (2017-2018)
Time: 1 hours 30 minutes
Full Marks: 75

There are 4 (four) questions. Answer any 3 (three).
Figures in the right margin indicate marks of the questions.

1. a) Define Assessment in Education. Differentiate between Assessment and Measurement. 10
b) What is evaluation in education? Describe the evaluation procedure. 15
2. a) What are the scales of measurement. Why it is important in education? 6
b) 'Categorical data and numbers that are simply used as identifiers'- What scales of measurement is indicated by this statement? Explain it with two examples. 10
c) Discuss the differences between interval and ratio scales with examples. 9
3. a) State the elements of instructional objectives. Show them by writing an example. 6
b) Describe the differences between learning activities and learning outcomes. Give two examples for each. 10
c) Explain observable and unobservable learning outcomes with examples. List 5 verbs for each of the learning outcomes. 9
4. a) What are the steps involved in matching test items with the instructional objectives? Write two examples for each step by showing them in a table whether the test items match with instructional objectives or not. 10
b) Tabulate the following 25 scores into a frequency distribution using the class interval 3. Also, show cumulative percentage frequency in the table. 15

72 75 77 67 72 81 68 65 86 73 67 82 76 76 70 83 71 63 72 72 61 67 84 69 64

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Programme: DTE 1 year 2nd Sem

Date: 07 August, 2018 Tuesday (Afternoon)

ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)
ORGANISATION OF ISLAMIC COOPERATION (OIC)

DEPARTMENT OF TECHNICAL AND VOCATIONAL EDUCATION (TVE)

Semester Mid-Term Examination

Course No: Hum 4237

Course Title: Islamic History Science and
Culture

Winter Semester (2017-2018)

Time : 1:30 Hours.

Full Marks : 75

There are 4 (Four) questions. Answer any three (3).
Figures in the right margin indicate marks of the questions.

1. c) Give the meaning and definition of *culture*. In brief analyze the functions of culture. 13
d) "Islam means peace and religion of peace, and it is true that if people follow Islam as prescribed in Holy Qur'an and Sunnah there will be peace in our lives in this world and the life to come hereafter." What do you understand by the term "*Islam*" as a verb from the root '*aslama*'? Explain the word '*Deen*' according to Holy Qur'an and Hadith by *Bukhari* and *Omar bin Al-Khattab*(ra). 12
2. c) Comment on the following as *Islamic culture*;
iv) Role of *Imam* and prayer leader
v) Celebration of *Eid-Ul-Fitr* and *Eid-Ul-Adha*.
vi) Politeness and respect for elders and love for the youngsters. 12
d) "In the tenth of *Hijrah*, the *Prophet Muhammad*(S.M.) went to Makkah as a pilgrim for last time." Why it is called the fare-Well pilgrimage or "Pilgrimage of farewell"? And what message conveyed by the *Messenger* (S.M.) to the people. 13
3. c) He (*Muhammad*(S.M.) asked her; "What is the wrong with this sheep?" She replied, "The sheep fatigued and weaker than the other sheep. "He asked, "Does it milk?" She replied; I swear by your mother and father, if I saw a milk from it then I will milk it." Explain the Prophetic birth and the description according to the a Bedouin women and elaborate the miracle of the *Prophet Muhammad*(S.M.) about the milkless sheep. 13
d) Explain the two conditions of *Ibadah*. Discuss *Islam* as a complete code of life. 12
4. Write short notes on any 3(Three) of the following:- 25
v) Islamic architecture and civilization.
vi) Illness and death of the *Prophet Muhammad*(S.M.)
vii) The battle on *Mount Uhud* between Muslims and Quraysh.
viii) The first revelation descended by *Gibrel* to the *Prophet Muhammad*(S.M.)

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

Mid Term Examination

Course No: TVE 4237

Course Title: Educational Measurement and Statistics

Summer Semester (2017-2018)

Time: 1 hours 30 minutes

Full Marks: 75

There are 4 (four) questions. Answer any 3 (three).
Figures in the right margin indicate marks of the questions.

1. a) Differentiate between categorical and quantitative variables with examples. 6
- b) A teacher administers a 30 item test on the first day of class in order to ascertain his students' initial level of knowledge of basic mathematics. Bob got 0, Joe got 10, Betty got 20, and Mark and Sheela each got a perfect 30. 10
- (i) In all likelihood, what kind of scale of measurement is this? Explain.
- (ii) Can teacher conclude that Bob does not know anything about Mathematics? Explain.
- (iii) Is Betty's knowledge of Mathematics twice as great as Joe's? Explain.
- (iv) Can teacher conclude that Mark and Sheela have an equally good knowledge of Mathematics? Explain.
- c) 24 Students in introductory statistics were asked about their academic standings. They gave the following responses: *freshman, junior, sophomore, junior, sophomore, graduate, sophomore, junior, sophomore, junior, sophomore, senior, senior, senior, junior, sophomore, sophomore, senior, senior, freshman, junior, graduate, sophomore, senior.* 9
- (i) Organize the results into a frequency distribution.
- (ii) On what measurement scale are these observations?
- (iii) Does it matter in what order we arrange the categories?
2. a) Why frequency distribution is important to understand the data? 6
- b) The following is a frequency distribution of test scores from 25 students in a physics test. 10
- | Scores | Frequency | Scores | Frequency | Scores | Frequency |
|--------|-----------|--------|-----------|--------|-----------|
| 20 | 2 | 13 | 0 | 6 | 0 |
| 19 | 3 | 12 | 1 | 5 | 0 |
| 18 | 3 | 11 | 2 | 4 | 0 |
| 17 | 4 | 10 | 1 | 3 | 0 |
| 16 | 3 | 9 | 1 | 2 | 0 |
| 15 | 3 | 8 | 1 | 1 | 0 |
| 14 | 1 | 7 | 0 | 0 | 0 |
- (i) Show cumulative proportion and cumulative percentage frequency.
- (ii) Draw a histogram based on this distribution.
- (iii) Is this distribution symmetrical, positively skewed, or negatively skewed? Why?
- (iv) What is the mean and mode of this distribution?
- c) In making a frequency distribution, you set the real limits for the lowest two intervals at 29.5-39.5 and 39.5-49.5. A friend objects, saying, "The intervals overlap, because both contain 39.5." 9
- (i) Reply to your friend's objection.
- (ii) Give the apparent limits and the interval width for both intervals.

3. a) Below are the times in minutes, spent on assignment one evening by a group of students. 10

<i>Time Spent</i> (min)	$0 \leq t < 10$	$10 \leq t < 20$	$20 \leq t < 30$	$30 \leq t < 40$	$40 \leq t < 50$
<i>Frequency</i>	3	7	10	15	4

Calculate cumulative frequency and cumulative percentage frequency for this data. Find out the top 10% of the students who spend the maximum time in their assignment.

- b) The mid-term examination scores are posted. The class did very well. All students taking the test scored over 60 out of 75. Unfortunately, 4 students got 0 as they were absent in the examination. Assuming that no score repeated more than one time, what measure of central tendency would most likely give the best representation of this data? Give reasons for your answer. 5
- c) For each data set, find the mean, the median, and the mode. Tell which measure you find most useful for describing the data and explain why. 10
- Umar scored 7, 9, 5, 3, 15 and 15 in six quizzes of one of his subjects. He wants to show that he is a good student.
 - Umar's phone calls lasted 20 min, 7min, 9min, 12min, and 7min. He wants to show how long a typical phone call is.
- 4 a) Classify the types of classroom assessment? Identify and explain the types of classroom assessment from the following examples- 15
- At the end of a unit on weather, Mrs. Jones gives her class a test to assess how much they have learned. This test is 20% of their semester grade.
 - Mr. Gregory is introducing his students to bar graphs. He is not sure that all of the students understand the material. He has the students work in groups to create a simple bar graph. He observes the students as they work and collects the graphs to check for accuracy.
 - Joey is struggling in all subject areas. He is a bright student and therefore his teacher, Mrs. Buckwalter, believes it is a reading disability. She gives him multiple reading evaluations to assess where the problem lies.
 - Each week Mr. Grables' students receive 15 spelling words. At the end of the week they take a test on the words and their scores are recorded.
 - Mrs. Bacco is teaching a lesson on social studies. She plays a review game a week before the unit test. She observes the students as they answer questions and makes notes on the concepts they will need to review before the test.
- b) List the types of frames of references to interpret the test score. Discuss the advantages and disadvantages of norm-reference test. 10

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

Mid Semester Examination

Summer Semester (2017-2018)

Course No: TVE 4239

Time: 90 Minutes

Course Title: Principles of Technical and Vocational Education

Full Marks: 75

There are 4 (four) questions. Answer any 3 (three).
Figures in the right margin indicate marks of the questions.

- 1 a. Define term 'Vocation'. Does it differ from the term 'Occupation'? Explain how the meaning of 'Vocation' has evolved from ancient time to today. 15

b. What do you understand by "Technical and Vocational Education and Training (TVET)"? Why is TVET needed? 10
- 2 TVET systems are heterogeneous and diverse across the countries in the world.

a. What are the factors that make TVET systems different? Classify the TVET systems according to learning places and type of regulation. 15

b. Write down the characteristics of any two types of the TVET systems according to type of regulation. 10
- 3 a. Describe briefly i) Apprenticeship Training ii) On-the-Job Training (OJT) and iii) Internship Training. 15

b. Why is "the Apprenticeship Training in the Dual System in Germany" called the Dual System? What are the basic elements of this TVET system? 10
- 4 Describe the functions of vocational schools and the functions of industries/enterprises as places of learning in the "Apprenticeship Training in the Dual System" in Germany. 25

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Mid Semester Examination

Course No: HUM 4241

Course Title: Islamic History, Science & Culture

Summer Semester (2017-2018)

Time : 1:30 hours.

Full Marks : 75

There are 4 (four) questions. Answer any 3 (three).
Figures in the right margin indicate marks of the questions.

1. a) 'Studying the *sirah* of Muhammad (saas) is an *ibadah*', based on this statement, discuss the significance of studying the *sirah* of the Prophet. 10
- b) Who should be the Role Model for whole mankind? Prove that 'the Prophet Muhammad (saas) is the only Ideal' highlighting the following four areas: 15
 - 1) Historicity
 - 2) Comprehensiveness
 - 3) Perfection
 - 4) Practicality
2. a) 'I am born to the best Arab Family', said the Prophet. In which family he was born? Examine the lineage/genealogy of the Prophet onto his great ancestor Ibrahim (a). 12
- b) 'The world including Arabia was steeped into deep darkness in the sixth century AC', What was the scenario of the whole world before the arrival of the Prophet (saas)? 13
3. a) Investigate into the reasons and reactions of the opposition of the Quraysh to the mission of the Prophet Muhammad (saas). What were the kinds and manifestations of this reaction? Give examples. 12
- b) The Prophet (saas) changed his strategy of *Da'wah* time to time to match the progression of Islam, on one hand, and to prevent the opposition of the Quraysh. Based on this, give a picture of different phases of the *Da'wah* activities of the Prophet (saas) in Makkah. 13
4. Write notes on the following issues:
 - a) Holy Isra' and Miraj of the Prophet Muhammad (saas): Prove scientifically the Miraj of the Prophet (saas). 25
 - b) '*Hijrah* of the Prophet (saas) from Makkah to Madinah: Reasons, Events and Significance of Hijrah as the beginning of Islamic Victory.

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

Mid Semester Examination

Course No: HUM 4249

Course Title: Technology, Environment and Society

Summer Semester (2017-2018)

Time : 1hr 30 min.

Full Marks : 75

There are 4 (four) questions. Answer any 3 (three).

Figures in the right margin indicate marks of the questions.

1. A) Define the term environment. 5
B) "Earth is a living system"- Explain. 10
C) Describe the characteristics of Anthropocene. 10
2. A) List out five major global environmental issues and briefly explain one. 10
B) What is a social-ecological system? 5
C) Briefly explain plate tectonic theory. 10
3. A) Define the terms ecosystem and biodiversity. 10
B) Describe ecosystem service provided by a river. 10
C) What is Holocene? 5
4. A) What's your opinion about growing population? How it might impact our environment? 10
B) Describe role of the technology on society with an example. 5
C) Define the term "Habitat". How does it differ from "Niche"? 10

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

Mid Semester Examination
Course No: TVE 4251
Course Title: Sociology of Education

Summer Semester (2017-2018)
Time : 1.30 hours
Full Marks : 75

There are 4 (four) questions. Answer any 3 (three)
Figures in the right margin indicate marks of the questions.

1.
 - a) Define sociology of education according to Brown, Carter, and Ottoway. 8
 - b) Discuss social functions of education. 5
 - c) Discuss value and scope of Sociology of Education. 12

2.
 - a) Explain "*family is the first institution of learning*". 8
 - b) Discuss the roles of family to develop attitude and behavior of the children. 5
 - c) Discuss "*The child brings to the schools his/her family culture*". 12

3.
 - a) Briefly discuss the need of teacher training for social development. 8
 - b) Comment the statement of Confucius "*if your plan is for 1 year, plant rice; if your plan is for 10 years, plant trees; if your plan is for 100 years, educate your children*". 5
12
 - c) Discuss role of a teacher to improve value system of the society.

4.
 - a) Discuss functions of education for social change. 5
 - b) Aristotle said: "*Educating the mind without educating the heart is no education at all*"- Are you agree? Explain the statement in light of social change. 8
 - c) What do you understand by educational leadership? Write your suggestions how to enhance esthetic values of the society by educational leadership. 12

Programme: BSc. Engg (CEE), 2nd Sem.

Date: 14. August 2018, Tuesday (Afternoon)

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

Mid-Semester Examination

Course No: Hum 4257

Course Title: Islamic History Science and Culture

Summer Semester (2017-2018)

Time : 90 Min.

Full Marks : 75

There are 4 (Four) questions. Answer any three (3).
Figures in the right margin indicate marks of the questions.

1. a) What do you understand by the term *culture*? In brief explain the characteristics of *culture*. 13
- b) He first gave praise to God (*Allah*), and then said: "Oh people! Lo! As for him who worshipped *Muhammad*, *Muhammad* is dead. But as for him who worship God (*Allah*), God (*Allah*) is Alive and dies not." Who said the above speech, and why? What are the eye witness said about *Abu Bakr* (Ra) and *Umar* (Ra). Clarify in details the situation at that time. 12
2. a) Elaborate the four (4) stages of the *Prophet Muhammad* (Pbuh) in Makkah. 08
- b) Explain the Battle of *Al-Hudaybiyah* and point out the truce of *Al-Hudaybiyah*. 08
- c) What do you understand by the term 'Islam'? Discuss the elements of Islamic style in Islamic architecture. 09
3. a) *Comment on the following as an Islamic culture;* 12
 - i) Shaking hands and eye contact.
 - ii) Removing shoes when entering the home.
 - iii) Prayer customs at home, during travel, and in the Mosque.
- b) He (*Muhammad*) (sm) was in a cave called *Hira*, near to Makkah it was a month of Ramadan, the month of heat. It was there one night towards the end of his quite month that the first revelation came to him when he was forty (40) years old. Write down the dialogue between the Prophet, and Gibrel and state the verses and the name of the surah. 13
4. *Write short notes on any 3(Three) of the following:-* 25
 - a) Culture and society.
 - b) The Jews and Hypocrites.
 - c) The *Hijrah* (622 C.E)
 - d) The war of the *Trench*.

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

Mid Semester Examination
Course No: TVE 4279
Course Title: Educational Technology

Summer Semester (2017-2018)
Time : 1.30 hours
Full Marks : 50

There are 4 (four) questions. Answer any 3 (three)
Figures in the right margin indicate marks of the questions

- | | | |
|----|---|------|
| 1. | a) What is educational technology and technology in education? | 6.66 |
| | b) State the scope, macro and micro level objectives of educational technology. | 10 |
| 2. | a) Define nature of teaching and learning in TVET as an instructional designer. | 6.66 |
| | b) Discuss the nature and characteristics of teaching. Show the relationship between teaching and learning. | 10 |
| 3. | a) Define tasks of teaching. How educational technology makes teaching-learning digitalized and effective in the 21 st century? | 6.66 |
| | b) Derive major functions of teaching variables. Explain how the variables are responsible before designing and selecting the instructional technology? | 10 |
| 4. | a) What is meant by 'theory of teaching'? Discuss the nature of 'theory of teaching'. | 6.66 |
| | b) Discuss functions of theories of learning from dimension of TVET. | 10 |

Programme: : BSc EEE &.HDEEE 4st Sem **Date:** 07 August,2018 Tuesday(Afternoon)

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

Semester Mid-Term Examination Winter Semester (2017-2018)
Course No: Hum-4421 Time : 01:30 hours
Course Title: Science Technology and Islam Full Marks : 50

There are 4 (Four) questions. Answer any three (3).
Figures in the right margin indicate marks of the questions.

1. a) Give the meaning and definition of the following:- 8.00
 - i. *Science.*
 - ii. *Technology.*
 - iii. *Islam.*
- b) "The *architecture* is the first and oldest craft of sedentary civilization. It is the knowledge of how to go about using houses and mansion for cover and shelter." Explain the implications of the concept of man as the vicegerent (Khalifa) on earth for architecture. With special reference to *Ibn Khaldun.* 8.66
2. a) "*Tawhid* as (Allah's or God's Oneness)" Clarify 8.00
- b) "The Holy Qur'an in numerous contexts explicitly declares that everything in the universe is in a state of continuous worship of Allah. Each and every creation is Allah's faithful servant constantly glorifying him and celebrating His praise." Discuss the *environment* as *Allah's* faithful servant. Mention at least three (3) verses along with the Surah name and number. 8.66
3. a) Explain the contributions of the great Muslims scientists in the middle ages:- 8.00
 - i. *Ibn Sina* (Avicenna)
 - ii. *Muhammad Ibn Musa Al- Khwarizmi* (1780-1850)
- b) In brief explain the verses from the Holy Qur'an on the finality and universality of Islam as the final revelation given to *Prophet Muhammad* (Pbuh)." Mention each Surah and verse number. 8.66
4. *Write short notes on any 2 (Two) of the following:-* 16.66
 - i) Implications of *Tawhid for Architecture.*
 - ii) Development of *Technology* in a second industrial revolution.
 - iii) *Islam emphasize on science and education* and Islam a complete code of life.

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Programme: Bsc Engg. (EEE) 2nd Semester

Date 10th August 2018 Friday (Morning)

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

Mid Semester Examination

Course No: Hum 4225

Course Title: Professional Ethics and Legal Issues

Summer Semester (2017-2018)

Time : 1:30 Hours

Full Marks : 75

There are 4 (four) questions. Answer any 3 (three).
Figures in the right margin indicate marks of the questions.

1. a) Discuss the necessity of studying professional Ethics for the Engineering community. 15
b) Explain the cautious optimism about technology which should be adopted by them. 10
2. Milton Friedman argues that the sole responsibility of managers is to stockholders, to maximize profits within the bounds of law and without committing fraud. An alternative view is stakeholders' theory: managers have responsibilities to all the individuals and organizations that make contract with a corporation or otherwise are directly affected by them. Present and defend your view as to which of these positions is the more defensible morally. 25
3. Discuss what you see as the main similarities and differences between Three Mile Island and Chernobyl disasters. 25
4. Write short notes on the following:
 - a) Micro and macro issues. 15
 - b) Personal commitment and meaning. 10
 - c) Improved safety. 10

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Programme: CEE 4st Sem.

Date: 10 August, 2018 Friday (Morning)

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

Semester Mid-Semester Examination

Summer Semester (2017-2018)

Course No: Hum 4459

Time : 1:30 hours

Course Title: Science Technology and Islam

Full Marks : 50

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

Figures in the right margin indicate marks of the questions.

1. a) What do you understand by the following terms, there any contradictory between them: 8.00
 - i. *Science*
 - ii. *Technology*
 - iii. *Islam.*

b) "*Technology* has without doubt an impact on society .As a matter of fact we experience this effect in our daily live. It has an effect on the growth of the economy, our culture and our living standards and over all effects on society." 8.66
Explain the positive and negative impact of technology on society. Give examples.
2. a) "*Islam* is a religion of peace and love and always support the science, education and motivate people to acquire knowledge according to the *Holy Qur'an* and *Hadith.*" Explain how the Islam emphasize on education and reading within all people equally. With reference of Holy *Qur'an* and *Sunnah* such as; the first revelation when *Gibrel* descended to the *Prophet(S).* 8.66
- b) "The *Islamic* notion of *comprehensive excellence* exerts much influence over the identity and chief characteristics of Islamic architecture. The implications of such a notion for Islamic architecture are both ideological and practical." Explain the implications of comprehensive excellence for architecture. 8.00
3. a) "The 20th century brought a host of innovations in different fields." Explain the development of technology in the areas such as; economic, communication, medicine, physics, construction, transportation training and education. Support your answer with examples. 8.00
- b) Show the contributions of the following Muslims scientists:- 8.66
 - i. *Ibn Al-Haytham (Alhazen)*
 - ii. *Al- Battani (868-929 C.E)*
4. Write short notes on any 2 (Two) of the following:- 16.66
 - i) *Islam* as a final and universal revelation.
 - ii) *Ibn Sina* contribution to science.
 - iii) Comprehensive excellence (*Ihsan*).

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Programme: B.Sc.Engg..(EEE)/ HDEEE, 6th Semester

Date: 10th August 2018, Friday (Morning)

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

Mid Semester Examination

Course No: HUM 4621

Course Title: Technology, Environment and Society

Summer Semester (2017-2018)

Time : 1hr 30 min.

Full Marks : 75

There are 4 (four) questions. Answer any 3 (three).

Figures in the right margin indicate marks of the questions.

1. a) Define ecosystem. What are the biotic and abiotic factors of an ecosystem? 05
b) Define Carrying Capacity of an ecosystem. How can the idea of sustainable resource use contribute to the ecological balance? 10
c) Write a short note on Earth System and Global Atmospheric Change. 10
2. a) How can uncontrolled population growth be an environmental concern? Explain with logical reasoning. 10
b) What is "Biodiversity Loss"? What are the general Ecosystem Services, we get from mother nature? Explain with example. 10
c) Explain the term Environmental Justice with example. 05
3. a) Explain the term Sustainability with relation to economy, society and environment. 05
b) What is Environmental Stewardship? Mention and describe the core principles of environmental stewardship. 10
c) Differentiate between weather and climate. Name seven theories of Climate Change. 10
4. a) What is SMOG? Write a short note on Green House Effect (GHE). 05
b) What is ozone hole? Explain the process of ozone layer depletion with the chemical reactions. Mention the impacts of ozone layer depletion on human health and ecology. 15
c) Define acid precipitation and mention causes from your understanding. 05

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Mid Semester Examination

Course No: TVE 6213

Course Title: Educational Psychology

Summer Semester (2017-2018)

Time: 90 Minutes

Full Marks: 75

There are 04 (four) questions. Answer any 3 (Three).
Figures in the right margin indicate marks of the questions.

1. (a) Define Educational psychology. Explain the relationship between education and psychology. 10
(b) "Educational psychology is the science of education and assists the teacher to understand the development of his pupils." Discuss this statement. 5
(c) State the tasks of educational psychology in light of technical education. 10
2. (a) Define social development. State the characteristics of social development in terms of students learning. 10
(b) Discuss briefly different factors that affecting the social development of the students. 15
3. (a) "Motivation is the heart of the learning process." Explain. 5
(b) Explain briefly different types of motivation. 10
(c) Discuss briefly different techniques that motivate students in their learning. 10
4. (a) "Personality is a very complex term". Discuss in brief the meaning and characteristics of personality in the context of this statement. 15
(b) Explain briefly the important elements of personality. 10