

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

**Mid Semester Examination**

Course No: Hum 4117

Course Title: Islamic History,  
Science and culture**Winter Semester (2017-2018)**

Time : 90 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) | Discuss the role of al-Quran in the growth of historical consciousness among the Muslims.        | 5  |
|    | b) | Discuss the merit of <i>ibne-Qutaiba</i> as a pioneer of universal history.                      | 10 |
|    | c) | Analyze the pitfalls of <i>ibne Ishaque</i> . Who amended them and how?                          | 10 |
| 2. | a) | Elaborate the socio-religious condition of the Arabs before the advent of Prophet Muhammad(S.M.) | 15 |
|    | b) | Discuss the condition of the Jews at that time.  | 10 |
| 3. | a) | Evaluate the success of Abu-Bakr(R) in quelling the rebellion of the false prophets.             | 10 |
|    | b) | Explain the constitutional reforms of Omar (R.)  | 10 |
|    | c) | Discuss the state welfare system introduced by Omar (R.)   | 5  |
| 4. | a) | Analyze the circumstances that led to the treaty of <i>Hudaibiyah</i> .                          | 8  |
|    | b) | Describe the terms of the treaty.  | 7  |
|    | c) | Why do you think it was indicative of the diplomatic foresightedness of Prophet (S.M.)           | 10 |

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**DEPARTMENT OF TECHNICAL AND VOCATIONAL EDUCATION (TVE)**

**Mid Semester Examination**

Course No.: HUM 4317/ HUM 4151

Course Title: Social Studies and Accounting

**Winter Semester (2017-2018)**

Time : 1.50 hours.

Full Marks : 75

**There are two parts; Part 'A' and Part 'B'. Use separate answer scripts for each part.**

**There are 3 (three) questions in each part. Answer any 2 (two) from each part.**

**Figures on the right margin indicate marks of the question**

**Part A: Social Studies**

- |       |   |       |
|-------|---|-------|
| 1. a) | What do you understand by the Commonwealth of Nations? In brief, discuss the objectives and activities of the commonwealth. | 6.00  |
| b)    | Elucidate the characteristics of marriage. Explain the importance of marriage.  | 6.25  |
| c)    | Give the meaning of Personality and Character. Explain the Freud's theory of personality.                                   | 6.50  |
| 2. a) | Define the term Society. Analyze the functions of Society.  | 6.00  |
| b)    | Clarify the difference between an institution and association. Support your answer with examples.                           | 6.00  |
| c)    | State the kinds of the family. Show the advantage and disadvantage of the Joint family.                                     | 6.75  |
| 3.    | <b>Write short notes on the following:</b>  | 18.75 |
| i)    | Elements of the state.  |       |
| ii)   | Social and religion activities within IUT-OIC.  |       |
| iii)  | The Salient features relating to Islamic Society.   |       |

**Part B: Accounting**

- |       |  |      |
|-------|--|------|
| 1. a) | Define accounting. What are the differences between accounting and book keeping?   | 6    |
| b)    | ABC Enterprise, an online baby shop offering baby products is owned by three owners namely A, B and C. The investment made by the each owner is Taka 100,000 equally. Therefore the total capital is Taka 300,000. The owners agreed to distribute profit equally. The liability of the owners is unlimited, not depending on the amount of investment made by each owner. Which form of business is ABC Enterprise? Why? Write down the merits and demerits of this ownership form of business. | 6.75 |
| c)    | Classify the followings into internal and external users of accounting information.  | 6    |
|       | i. Shareholders,   |      |
|       | ii. Tax authority,   |      |
|       | iii. Finance manager,  |      |
|       | iv. Marketing manager,   |      |
|       | v. Customers,  |      |
|       | vi. Bank and financial institutions.   |      |

2. a) Classify the following items into manufacturing, merchandising and service business. 5
- i. Microsoft Incorporation
  - ii. Samsung Company
  - iii. Call center
  - iv. Swapno Super shop
  - v. AB Bank Limited
  - vi. Google Incorporation
  - vii. Unilever Bangladesh Limited
  - viii. IUT coffee shop
  - ix. PRAN RFL Limited
  - x. Apple Incorporation
- b) Write short notes on 8
- i. Dividend, retained earnings
  - ii. Limited liability concept
  - iii. Separate entity assumption
  - iv. Time period assumption
- c) What is accounting equation? What are the components of it? How does owner's equity change? 5.75
3. a) Classify the followings into asset, liability, revenues and expenses account 10
- i. Advertising expense
  - ii. Sales revenue
  - iii. Land and Building
  - iv. Accounts receivable
  - v. Accounts payable
  - vi. Interest on bank deposit
  - vii. Purchase of products
  - viii. Cash and bank balance
  - ix. Unpaid salaries
  - x. Office rent
- b) Assume the following information for A Enterprise 4
- Owner's capital = Taka 200,000  
 Withdrawal = Taka 20,000  
 Revenues = 500,000  
 Expenses = 400,000  
 Liability = 320,000  
 Owner's equity = ?  
 Asset = ?  
 Show computation.
- c) Define business. Differentiate between sole proprietorship and corporation form of business in terms of ease of formation, number of owners, liability, taxation, capital adequacy, legal formalities etc. 4.75

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DEPARTMENT OF TECHNICAL AND VOCATIONAL EDUCATION (TVE)

**Mid Semester Examination**

Course No: Hum 4125

Course Title: Islamic Philosophy,  
History, and Culture**Winter Semester (2017-2018)**

Time: 90 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) Evaluate the role of al-Quran in the growth of historical consciousness among the Muslims. 5
- b) Discuss the merit of *ibne-Qutaiba* as a pioneer of universal history. 10
- c) Analyze the theory of influence of the climate in the modern perspective. 10
2. a) Elaborate the socio-economic condition of the Arabs before the advent of Prophet Muhammad(S.M.) 15
- b) Discuss the condition of the Jews at that time. 10
3. a) Discuss the wisdom behind the classification of religious obligations and prohibitions in Islam. 10
- b) Explain the social and global impacts of *zakaat* and *hajj*. 15
4. a) Point out the difference between *Hadith* and *Sunnah*. 05
- b) Discuss the classification of the books of *ahadith*. 10
- c) What is meant by *Mursal*? Is it sound or weak? Why? 10

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Mid Semester Examination  
 Course No: HUM 4145  
 Course Title: Islamiyat

Winter Semester (2017-2018)  
 Time: 1 hr 30 mns  
 Full Marks: 50

**Answer question no. 1 and any 2 of the following questions.**

Figures in the right margin indicate marks of each question.

- 1 a. "Religion is understood by others as manifestations of some rites and rituals while Islam is declared by Allah as the only Deen prescribed by Him", discuss the meaning of Deen and prove that only Islam fits this definition from among all existing religions of the world. Vindicate your points with references from the Qur'an and Sunnah. 10
- b. Allah said, "I have not created the Mankind and the Jinn except for My worship (*Ibādah*)", whereas people generally think that *Ibādah* comprises some rituals only, do you agree? What is the real concept of *Ibādah*? Explain in the light of Qur'an and Sunnah. 8
- 2 a. "*Tawhīd* is the heart of Islam", prove this statement explaining the meaning of *Tawhīd*, its classifications, and the differences between Islam and other world religions regarding the concept of the Supreme God. Highlight the aberrations existing in the Muslim societies against the ideal position of *Tawhīd*. 8
- b. '*Shirk* with Allah is an unforgivable sin; still many Muslims are committing it in different dimensions', what are these manifestations of *Shirk* in the Muslim societies? Explain along with the meaning and categories of *Shirk*. 8
- 3 a. 'Magic is the trickeries of Hand', is it the ideal position with all magical practices of the world? Discuss along with the meaning of Magic, its classifications, Islam's stance about the existence of black magic, and its ruling for the black magicians. Prove that Islamic ruling of black magic as a form of *Shirk* is real and ideal. 6
- b. Do you not think that the claim of astrologers and horoscope-readers to predict the future is against Islam's ideal position? Establish your argument with reference from the Qur'an and Sunnah. 6
- c. We are encouraged by the Prophet (saas) to frequently visit the graves maintaining some restrictions, what are these restrictions? Discuss. 4
- 4 a. '*Salāt* is the defining line between Islam and *kufr*', then what is the significance of *Salāt*? Discuss. 7
- b. "You perform *Salāt* as you see me performing *Salāt*", said the Prophet. Explain the Prophetic way of performing *Salāt*. 9

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**Mid Semester Examination**

Course No: HUM 4147

Course Title: Technology, Environment and Society

**Winter 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) What do you understand by Environment? Explain the relationship among environment, society and technology. 10
- b) Define Earth System. Name the components of the earth system. 05
- c) Define Carrying Capacity of an ecosystem. Describe the functions of an ecosystem with examples. 10
  
2. a) Uncontrolled population growth is an environmental concern. What will be your opinion? Explain with logical reasoning. 05
- b) Explain the term Sustainable Development. Describe five important measures of sustainable development 10
- c) What is Biodiversity? Briefly discuss the reasons of Biodiversity Loss on earth. 10
  
3. a) Write the examples of Green House Gas (GHG). How are they responsible for trapping temperature in the atmosphere of the earth? Explain with necessary diagram. 10
- b) Differentiate between traditional refrigerants and CFCs. 05
- c) Differentiate between weather and climate. Name the seven theories of climate change. 10
  
4. a) Why does "Photochemical smog" known as secondary pollutant? Explain the formation of Photochemical smog. 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 aquifer. Draw a cross section of an aquifer and label it properly. 05

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**Mid Semester Examination**

Course No: Hum 4157

Course Title: Islamiyat

**Winter 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) What is meant by Tawhid? Discuss the importance of Tawhid in Islam 6  
 b) Analyze the importance of intelligence in Islam. 6  
 c) Why was the desire regarded as a god other than Allah by *Abdullah ibne Abbas (ra.)*? Discuss.  $4\frac{2}{3}$
2. a) Explain as to how the authority of the Sunnah was established by the early scholars.  $10\frac{2}{3}$   
 b) What is meant by Gharib? Is it sound or weak? Why? 6
3. a) How did our Prophet (Saw) explain *Ihsan*? Discuss the role of *Ihsan* in reconstructing social life. 6  
 b) Cite an incident related to ethical values of the early Muslims to clarify *Ihsan's* role in the rise of the Islamic civilization.  $10\frac{2}{3}$
4. a) Explain the wisdoms behind the classification of religious obligations and prohibitions in Islam. 6  
 b) Discuss the individual and social impact of *salaat* and *zakaat*.  $10\frac{2}{3}$

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Mid Semester Examination

Winter Semester (2017-2018)

Course No: TVE 4111

Time: 90 Minutes

Course Title: Occupational Analysis and Course Construction

Full Marks: 75

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

- 1 a. What do you understand by 'Occupation'? Describe the four major characteristics of the concept of an occupation according to Noelker. 10
- b. What are the aims of International Standard Classification of Occupations (ISCO)? In ISCO how many *Major Groups* are there? Write down the *Sub-Groups* under any two of the major groups. 10
- c. What is meant by the term 'Occupational Standards'? How do *Education and Training Standards* (or curricula) differ from *Occupational Standards*? 5
- 2 a. Describe the major features of the *Upper Secondary Education (ISCED-Level 3)* programme with its sub-classification and the possibilities of accessing higher level programmes. What do you understand by 'Post-secondary non-tertiary education (ISCED-Level 4)? 15
- b. What is 'Job Profile'? Write a "Job Profile" for an occupation related to your field of study. 10
- 3 a. Define the terms: *i) Competence, (ii) Qualification, and (iii) Occupational Competence.* 15
- b. Describe the Bader/Mueller's competence model of *Occupational Competence.* 10
- 4 a. What are the various elements or the outcomes of Task Analysis? 5
- b. What is Job Analysis? Does it differ from Occupational Analysis? What are the aims of Job Analysis? 5
- c. What are the three basic questions you should ask while you conduct the Job/ Occupational analysis? What do you understand by the term 'Job description'? Give an example of a Job description. 15



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**Mid Semester Examination**

Course No: TVE 4151

Course Title: TVE Ethics and Society

**Winter Semester (2017-2018)**

Time: 90 minutes

Full Marks: 75

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

- |          |   |    |
|----------|---|----|
| <u>1</u> | a. What is engineering ethics? Explain its importance in Technical and Vocational Education and Training (TVET).                | 15 |
|          | b. Discuss the scope of engineering ethics with examples.   | 10 |
| <u>2</u> | a. Briefly explain the steps involved in resolving ethical dilemmas.  | 15 |
|          | b. "An engineer shall not solicit or submit engineering proposals on the basis of competitive bidding" – Discuss with examples. | 10 |
| <u>3</u> | a. What is codes of ethics? Discuss its importance in education and training.   | 15 |
|          | b. Outline the limitations of codes of ethics in the professional society.  | 10 |
| <u>4</u> | a. Briefly explain utilitarianism versus cost-benefit analysis in engineering ethics.   | 10 |
|          | b. Discuss ethical responsibilities of a teacher in higher education sector.  | 15 |

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Mid Semester Examination

Winter Semester (2017-2018)

Course No: TVE 4139

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. Describe how the word 'Vocation' has been evolved from ancient time till today and define the term 'Vocational Education and Training (VET)' based on this meaning. How do you differentiate between 'Technical Education' and 'Vocational Education'? 15
- b. Why does a country need the "Vocational Education and Training (VET)"? Who are VET providers and clients. 10
- 2 a. Describe the VET systems of your country and mention the problems and/or challenges of VET Institutions in your country. 15
- b. Do you think that a country will become more successful in skills formation by simply copying successful foreign policies and systems of VET? Justify your answer. 10
- 3 a. Classify VET systems according to learning places and type of regulations. 5
- b. Illustrate the advantages and disadvantages of government and market regulated TVET systems. 20
- 4 Describe the German Dual System of initial Vocational Education and Training. 25

Programme: CEE 7<sup>st</sup> Sem.

Date: 16 March 2018 (Friday) Afternoon

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

**Semester Mid-term Examination**

Course No: TVE -4749

Course Title: Science Technology and  
 Islam

**Winter Semester (2017-2018)**

Time : 1:30 Hours

Full Marks : 50

**There are 4 (Four) questions. Answer any three (3).**  
Figures in the right margin indicate marks of the questions.  
Support your answer from Quran and Sunnah

1. a) Give the meaning and definition of science and technology. 08  
 b) **Ibn Khaldun** rightly observed that building is a basis of civilization, and is of the most indispensable crafts which man ought to gain knowledge of: "This Architecture is the first and oldest craft of sedentary civilization. It is the knowledge of how to go about using houses and mansions for cover and shelter." Explain the implications of the concept of man as the vicegerent (Khalifah) on earth for architecture. 8.66
  
2. a) The implications of **Tawhid** for Islamic architecture are rather ideological. Discuss the implications of tawhid for architecture.  
 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 the Surah and the verse number. 08  
8.66
  
3. a) In brief explain the Heliocentric theory and draw a diagram to support your answer. 08  
 b) "Write and show the contribution of the following Muslims scholars:-  
 1-**Ibn Sina** as a father of medicine and clinical pharmacology.  
 2-**Ibn Al-Nafees** the most famous Muslim physician.  
 c) In short explain the Medicine in the medieval Islamic world. 8.66
  
4. **Write short notes on the following:** 16.66  
 1-Islam as the final and universal revelation.  
 2-Medical Science and Prophetic Medicine  
 3-Ancient 'Muslim' hospitals.

Programme: MCE 7<sup>st</sup> Sem.

Date: 15 March 2018, (Thursday) Afternoon

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

Semester Mid-Term Examination

Course No: Hum-4749

Course Title: Science Technology and Islam

Winter Semester (2017-2018)

Time : 01:30 hours

Full Marks : 50

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

1. a) Show how Muslim scientists placed for greater emphasis on experiment and development of science in various fields, such as; 1- **Ibn Al-Haytham** (Alhazen), 2- **Al-Battani** as a famous Astronomer Mathematician and astrologer in Islamic period. 8.66
- b) "**Ibn Sina** (Avicenna) as the most influential philosopher of Islam and as a pioneer of Science of experimental medicine and his contribution to the development in the Islamic world in the middle ages. Clarify. 08
2. a) "According to an article posted on [www.berkati.net](http://www.berkati.net),"Islam is a religion for all people from whatever race or background they might be that is why Islamic civilization is based on a unity and against racial or ethnic". Discuss 08
- 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 aspect of creation is Allah's faithful servant constantly glorifying Him and celebrating His praise." Comment on man as the vicegerent (Khalifah) on earth. 8.66
3. a) Give the meaning and definition of Technology. 08
- b) "The notion of **Tawhid** is the most important corner stone in the conceptual framework for the Islamic architecture. Tawhid means asserting the unity or oneness of Allah. Tawhid is the Islamic concept of monotheism." Clarify Tawhid (God's Oneness). 8.66
4. Write short notes on any 2 (Two) of the following:- 16.66
  - A. Science, Engineering and Technology.
  - B. Quran's encouragement to seek knowledge.
  - C. Western civilization: A direct offspring of Islamic Science.

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Programme:EEE 7<sup>st</sup> Sem.

Date:14 March 2018 (Wednesday) Afternoon

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

**Semester Mid-term Examination**

**Course No:** Hum -4749

**Course Title:** Science Technology and  
Islam

**Winter Semester (2017-2018)**

**Time** : 1:30 Hours

**Full Marks** : 50

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

Figures in the right margin indicate marks of the questions.

Support your answer from Quran and Sunnah

1. a) Discuss the Implications of comprehensive excellence for architecture. 08  
b) **Ibn Khaldun** rightly observed that building is a basis of civilization, and is of the most indispensable crafts which man ought to gain knowledge of: "This Architecture is the first and oldest craft of sedentary civilization. It is the knowledge of how to go about using houses and mansions for cover and shelter." Explain the implications of the concept of man as the vicegerent (Khalifah) on earth for architecture. 8.66
2. a) "Islamic architecture came into existence in order to meet the requirements of the Islamic notion of **Tawhid**." Explain 8.66  
b) "The 20<sup>th</sup> century brought a host of innovations in different fields". Discuss the development of technology in physics, medicine, communication, construction, transportation, economics, training and education. 08
3. a) Science, engineering and technology, these 3 fields are considered as one for purpose of research and reference. Explain 08  
b) The implications of the concept of man as the vicegerent (khalifah) and his interaction with nature for architecture are both ideological and practical. "The implications of the concept of man as the vicegerent (Khalifah) on earth for architecture". Explain 8.66
4. Write short notes on any 2 (Two) of the following:- 16.66
  - a) Ibn Sina (Avicenna) as the philosopher of Islam.
  - b) Heliocentric theory.
  - c) Islam as the final and universal revelation.

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**Mid Semester Examination**

**Course No:** TVE 6113

**Course Title:** Curriculum Development in TVE

**Winter Semester (2017-2018)**

**Time:** 1hour 30minutes

**Full Marks:** 75

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

1. a) A curriculum is considered as the "heart" of any institution of learning. Explain the statement. Define curriculum development. 10  
b) Curriculum development has a broad scope because it is not only about the educational institution, the learners and teachers but also about the development of a society in general. Discuss. 15
2. a) It is always good at the beginning of a curriculum development process to start by reflecting on your own experience. What questions would you try to answer during this process and what would you think of by seeing the word curriculum? 08  
b) How did Rogers and Taylor describe curriculum development in 1998? What can you extract from this description? Briefly explain with the aid of an outline diagram the three states of curriculum development process. 17
3. a) Staff and students are the heart of curriculum. What are the answers to key questions which shape the relationship between them? 07  
b) What are the key TVET institution's policy considerations that must be accommodated in curriculum development and what influences do they provide? 10  
c) State the number of ways that a curriculum can be characterized. 08
4. Explain what you understand by intended learning outcomes and explain the fundamental questions that need to be asked about intended learning outcomes, the key elements and their relationship in the curriculum. 25

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Mid Semester Examination

Course No: TVE 6125

Course Title: Advanced Methods and Techniques of Teaching

Winter Semester (2017-2018)

Time : 90 mins

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 qualities of a good teacher. 05
- (b) Explain – “*The mediocre teacher tells, the good teacher explains, the superior teacher demonstrates, the great teacher inspires.*” 08
- (c) Discuss importance of “engaging”, “sharing”, and “nurturing” of TVET students. 12
  
- 2 (a) What is meant by industry-standards and competency in training? 05
- (b) Explain – “*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 children.*” 08
- (c) How can you teach effectively? Discuss the nature of teaching in TVET classrooms. 12
  
- 3 (a) Define criteria for an effective teaching. 05
- (b) Explain – “*Some of the brightest minds in the country can be found on the last benches of the classroom.*” 08
- (c) With example discuss the following theories of learning: 12
  - Learn by doing
  - Learn by role playing
  - Learn from mistake.
  
- 4 (a) List some tips which are essential for planning a lesson. 05
- (b) Explain – “*Nothing great in the world has ever been accomplished without passion.*” 08
- (c) As a learner of 21<sup>st</sup> century, how do you define ‘*innovation*’ and ‘*creativity*’ in teaching and learning? Discuss utilities and limitations of innovative methods of teaching and learning which could be followed by: 12
  - Flipped classrooms
  - MOOCs
  - Cloud computing
  - i-Book.

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**Mid Semester Examination**  
**Course No:** TVE 6153  
**Course Title:** Educational Research

**Winter Semester (2017-2018)**  
**Time** : 90 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) Discuss *inductive* and *deductive* reasoning in research by using proper examples. 10  
 b) What are the underlying reasons of conducting research in the area of Technical and Vocational Education (TVE)? Discuss these reasons with appropriate examples. 15
2. a) Write three reasons that you need to consider while you will be selecting your research problem? Why do you think these three aspects (reasons) are important to consider? 07  
 b) Discuss briefly the importance of undergoing *literature review* before selecting a research problem. 09  
 c) What is *applied research*? Discuss the main features of basic research in technical education. 09
3. a) What is *qualitative* research in TVET context? Identify the main features of this research methodology. 10  
 b) What is independent *Variable* in research? Provide an example to clarify your answer. 08  
 c) Read the abstract and answer the following question: 07  
 Though pedagogical beliefs have been identified as critical factors in the success of technology integration, very few studies have included them in technology-adoption models. The present study revises the Technology Acceptance Model (TAM) by adding teachers' pedagogical beliefs, and tests the revised model among university-level English-as-a-foreign- language (EFL) teachers in China. Specifically, the revised model examines how teachers' constructivist and/or transmissive pedagogical beliefs influence four key constructs of the TAM: perceived usefulness, perceived ease of use, attitude toward use, and intention to use. Survey data were collected from 202 Chinese EFL teachers and analyzed using path analysis. The revised model showed a good model fit. The results indicated that the sampled teachers' pedagogical beliefs were more constructivist-oriented than transmissive- oriented, and that the former type of beliefs had a significant positive influence on three of the above-mentioned TAM constructs (perceived usefulness, perceived ease of use, and attitude toward use). Teachers' transmissive pedagogical beliefs, on the other hand, did not have any significant impact on their attitudes toward information and communication technology (ICT) or their perceptions of its usefulness, though such beliefs did significantly affect their perceptions of how easy ICT was to use. Implications of these findings for teacher education and professional training are discussed. Source: Liu, lin & Zhang (2017)  
**Which type of research (qualitative/quantitative) do you think it is? Give four reasons, which are stated (discussed) in this abstract.**
4. a) Write short note on the following terminology with stating citing one appropriate research problem (example): 12  
 (i) Positivist; & (ii) Interpretivist;  
 b) What is the difference between *Method* and *Methodology* in technical education research? Clarify the answer with example. 08  
 c) Draw a diagram that represents a total flow of a research process (starting from origin of problem to collecting data) 05



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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 6371**

**Course Title: Systems Approach in Technical Education**

**Winter Semester (2017-2018)**

**Time: 1Hr 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 system approach. How does it influence in education? 10  
(b) Explain briefly the different steps that involved in systems approach. 10  
(c) State the essential characteristics of systems approach. 5
2. (a) What is an organization? Explain briefly different types of organization. 10  
(b) State the characteristics of informal organization. 5  
(c) Discuss advantages and disadvantages of formal organization. 10
3. (a) Explain briefly the concept and meaning of organization boundaries. 5  
(b) Discuss the characteristics and functions of an organization boundary. 10  
(c) Distinguish between boundary-spanning positions and boundary role  
Persons. 10
4. What is organization theory? Classify the organization theory and explain  
briefly each of the theories. 25