

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

Semester Final Examination

Course No: TVE 4203

Course Title: Psychology of Teaching and Learning

Winter Semester (2017-2018)

Time : 3 hours

Full Marks : 100

There are 8 (eight) questions. Answer any 6 (six).
Figures in the right margin indicate marks of the questions.

1. a) Identify main tasks of educational psychology. 8.66
b) Discuss the following four aspects which are linking with scope of educational psychology: 8.00
 - The learner (pupil).
 - The learning process.
 - The learning situation.
 - The learning experience.
2. Draw a comparison table that represents different aspects (features) among the following theories of learning: 16.66
 - Behaviorism
 - Constructivism
3. a) What is the basic concept of *Theory of Thorndike*? 4.66
b) Discuss *the cognitivism learning theory* on the basis of following points: 12.00
 - learning process;
 - role of a teacher;
 - role of a learner.
4. a) How does Theory of Skinner link with education? 6.66
b) Define motivation and compare the behavioral, humanistic, cognitive, and social perspectives on motivation. 10.00
5. a) What are some strategies students use to protect their self-worth to avoid failure? How can these students be helped? 9.66
b) How can teachers help students who are uninterested or alienated? 7.00
6. a) What are the two main goals of effective classroom management? 5.66
b) What are some barriers to effective speech (verbal communication)? What are some principles of good speech? 11.00
7. a) Discuss how teachers can contribute to their institutes' success considering the following aspects: *Resource Provider, Instructional Specialist, Curriculum Specialist, Learning Facilitator, and Mentor*. 10.00
b) Name *three conditions* that the administrator of any institute should offer to a teacher for fostering their leadership. Elaborate these three conditions. 5.66
8. a) Identify a problem from your area of specialization, and apply the seven step strategy to get a better solution (outcome). 8.00
b) Draw a cooperative problem based learning (CPBL) model and discuss its major three phases (Phase 1, 2, and 3). 8.66

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Semester Final Examination

Course No: Hum 4217

Course Title: Islamic Philosophy and Professional Ethics

Summer Semester (2017-2018)

Time : 3 hrs.

Full Marks : 150

There are 8 (eight) questions. Answer any 6 (six).
Figures in the right margin indicate marks of the questions.

1. a) Discuss the Islamic Philosophy regarding the importance of intelligence. 15
 b) Why do you think that lower desire is opposite of intelligence? Explain. 10

2. a) Analyze the possibility of adapting the Islamic Shariah into the modern society. 15
 b) Discuss the modern tendency regarding the movement of implementing the Shariah. 10

3. The Islamic law of inheritance requires that the daughter will receive half of what her brother inherits from one of the deceased parent's estate. Apparently, to many it constitutes a kind of gender discrimination. Elaborate your arguments regarding this issue. 25

4. a) What makes *Mudaraba* different from the interest? 10
 b) Explain the legitimacy of *Mudaraba* in light of the following sources: 15
 i) Practice of the Prophet, ii) Practice of the *Sahaba (R.)*, iii) Public interest.

5. 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 more defensible morally. 25

6. Most companies want to have a reputation for environmental responsibly, but there are different shades of green policies in their commitment. They are: 1. "Light Green" means compliance with the law 2. "Market Green"- seeking competitive advancement by attending customer preferences. 3. "Stakeholder Green" responding to and fostering environmental concern in the stakeholders of the corporation including suppliers, employees and shareholders and products and using procedures that include respect for nature and having inherent worth. 25

Which of these shades of green would you ascribe to COMPAQ and SELF?

7. Discuss what you see as the main similarities and differences between Three Mile Island and Chernobyl disasters. 25

8. Write short notes on the following:
 - a) Safe exit, 8
 - b) Sustainable development, 9
 - c) Improved safety. 8

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DEPARTMENT OF TECHNICAL AND VOCATIONAL EDUCATION (TVE)

Semester Final Examination

Course No: Hum 4225

Course Title: Professional Ethics and Legal Issues

Summer Semester (2017-2018)

Time : 3 hrs.

Full Marks : 150

There are 8 (eight) questions. Answer any six (6).

Figures in the right margin indicate marks of the questions.

1. a) Discuss the role of ethics in enhancing the morale of the engineering community. 10
b) How can the professional society promote responsible conduct and prevent wrong doing? 15
2. Discuss the following topics with an eye to how individual choices in everyday life affect the environment:
a) Drinking from disposable cups. 12
b) Driving SUVs that gets low gas mileage. 13
3. Are there any ethical grounds for maintaining a large nuclear stockpile today? Discuss any stabilizing or destabilizing effects you see. Also, discuss the promise and perils of the "swords of perils" idea of selling weapons- grade plutonium to utility companies for use in nuclear plants. 25
4. Discuss the notion of safe exit, using evacuation plans for communities near nuclear power plants or chemical process plants. 25
5. How would you balance respect for diversity with commitments to respect for individual rights in the following case: 25
Your company is asked to design a more efficient apparatus whose size is quickly adjustable to young children, and you are assigned to the project. You know that the primary market of the apparatus is countries that use the child labour.
6. Regarding the artificial lunge example, comment on why you think simple human contact made such a large difference, both before and after encounter? Is the case too unique to permit generalizations to other engineering products? 25
7. Since Nigeria became a member of OPEC in 1970, the country's oil boom has led to increase in corruption, lower living standards for the poor and much instability. Foreign oil companies are accused of having disregarded the safety and livelihood of local people when drilling and laying pipelines. The Ogoni people in particular have protested, but in vain. Describe what you feel of foreign oil companies in a host country such as Nigeria. 25
8. Write short notes on the following:
a) Market mechanism and internalizing the cost. 9
b) Effect of information in risk assessments. 7
c) Morally committed corporations. 9

Programme: BsTE 2 year (2nd Semester)

Date: 01 November Thursday 2018 (Morning)

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DEPARTMENT OF TECHNICAL AND VOCATIONAL EDUCATION (TVE)

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

Summer Semester (2017-2018)
Time: 3: 00 hours
Full Marks:150

There are 8 (eight) questions. Answer any 6 (six).
Figures in the right margin indicate marks of the questions.

1. a) In 1927 Elton Mayo and F. Roethlisberger performed a series of studies in Hawthorne plant of Western Electric Company near Chicago in USA which was later named **Hawthorne Study**. Describe this study in details. 10
- b) What was the purpose of Time study (as carried out by Taylor) to Engineering management? 5
- c) Examine the criticism of scientific management from workers point of view? 10

2. a) Explain the following scientific method used during planning: 5
- I. SWOT analysis 5
- II. Delphi method 5
- b) BIMAN has been receiving a number of complaints regarding its service and a survey was carried out at Bangladesh Shahjalal airport. With the help of the table below, draw a pareto chart and try to find the vital few and useful many. 15

Cause	No. of Complaints
Delayed Flights	3500
Lost Luggage	2100
Bad Food	1300
Dirty Planes	500
Rude Attendants	150
Slow Check In	100

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
5. a) Explain Hersey and Blanchard's Situational leadership theory with the help of a diagram. 10
- b) What is leadership in management perspective? 5

- c) Explain the four (4)-leadership style based on Hersey's theory 10
- 6 a) Briefly explain the following types of Power:
- I. Referent power 5
 - II. Coercive power 5
 - III. Legitimate power 5
 - IV. Expert Power 5
- b) Possession of power helps control the behavior of employees by ensuring that they adhere to the organization's policies and norms. Briefly explain the strategies for obtaining power in any organization. 5
- 7 a) In every organization there are politics individual play in order to obtain control and power over others. Explain the main reason behind every organizational politics. 10
- b) For managers to perform the basic functions of management, he/she has to have a smooth and effective communication. Briefly explain the communication process that will ensure effective communication between the manager and his coworkers. 10
- c) State five types of communication in management. 5
- 8 a) Explain the following types of nonverbal communication:
- I. Haptics 5
 - II. Vocalics(paralanguage) 5
 - III. Kinesics 5
 - IV. Proxemics 5
 - V. Monochronic time 5

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Semester Final Examination

Course No: HUM 4241

Course Title: Islamic History, Science & Culture

Summer Semester (2017-2018)

Time : 3.00 hours.

Full Marks : 100

There are 8 (eight) questions. Answer any 6 (six).Figures in the right margin indicate marks of the questions.

1. a) Muhammad (saas) has been sent by Allah for establishing peace and stability in the society, why then did he engage himself in warfare? Find out the justification. $\frac{1}{3}$
 b) 'I am born to the best Arab Family', said the Prophet. In which family he was born? Examine the lineage of the Prophet unto his great ancestor Ibrahim (a). 08
2. a) Holy Isra' and Miraj of the Prophet Muhammad (saas): Prove scientifically the Miraj of the Prophet (saas). $\frac{1}{3}$
 b) 'Hijrah' of the Prophet (saas) from Makkah to Madinah: Reasons, Events and Significance of Hijrah as the beginning of Islamic Victory. 08
3. a) 'The Battle of Badr is the turning point in the history of Islam', how is it? Discuss the reasons, events, and results of the Battle of Badr highlighting its far-reaching consequences for the Muslims and the non-Muslims. $\frac{1}{3}$
 b) 'The Treaty of Hudaibiyah is a testimony to the Prophet's political sagacity', prove this point highlighting far-reaching consequences of this Treaty for Islam and the Muslims. 08
4. a) What do you know about Abu Bakr (r)? Outline his services for Islam before & after his caliphate as 'The Savior of Islam'. $\frac{1}{3}$
 b) 'Umar (r) is the father of modern administration and management', certified by the world scholars. Highlight the special features of Umar's (r) administration. 08
5. a) What do you know about Uthman? Discuss his *khidmah* towards Islam in its totality. What are the reasons of the great *fitnah* took place during his time? Give your opinion. $\frac{1}{3}$
 b) Who was 'Ali? What were his services towards Islam after his conversion to Islam and after his accession to caliphate? Discuss the turbulence he faced during his time/tenure. 08
6. 'Islam is not a culture, but culture is an integral part of Islam', if it is so, then define culture and Islamic culture highlighting the sources and specialties of Islamic culture. Discuss the areas where the worst cases of alien cultural aggression is taking place in the Ummah resulting in the Muslim youth forgetting their cultural distinctions, and then suggest your remedies for confronting this aggression. $16\frac{1}{3}$
7. a) 'In whatever direction we look, we meet in various pursuits...Saracenic vestiges', said Draper. Discuss, on this basis, the Muslim contributions to various fields of science. 10
 b) 'Hundreds of Muslim scholars in their golden era contributed to the development of modern technological era', mention the Muslim discoveries in the engineering field to support your stance. $\frac{1}{3}$
8. Write short notes on the following: $16\frac{1}{3}$
 - (i) Farewell Pilgrimage and Farewell Sermon of the Prophet (saas),
 - (ii) Al-Razi (Razes) and scientific inventions

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Programme: M.Sc.TE, 2nd Semester

Date: 25 October 2018, Tuesday

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

Semester Final Examination

Course No: TVE 6271

Course Title: Educational Guidance and Counselling

Summer Semester (2017-2018)

Time: 3 hours

Full Marks: 150

There are 8 (eight) questions. Answer any 6 (six).

Figures in the right margin indicate full marks of the question.

1. (a) State the definition of "Guidance" according to Crow & Crow and Hamrine & Erickson. 10
(b) Explain the main characteristics guidance and the principles of guidance philosophy. 15
2. (a) State the main functions of guidance & counselling. Why guidance and counselling services are needed in educational institutions. 15
(b) What are the functions of educational guidance and vocational guidance? 10
3. (a) An effective guidance program is to be organized in the form of a series of services. What are these specific services that are usually provided at educational institutions? 10
(b) Describe any three specific services which are (or should be) provided at educational institutes in your country. 15
4. 'Everybody, who comes into contact with the student, contributes in one way or the other in his/her growth and development'. Discuss the role of the administrator, the counselling officer, and the teacher in implementing effective guidance program in educational institutions. 25
5. (a) On the basis of the nature of the counselling process the counselling techniques can be classified into: i) directive or prescriptive, ii) non-directive or permissive and iii) eclectic. Describe each of the above mentioned counselling processes. 15
(b) Interview is one of the tools used for individual counselling. Describe the interview procedure in detail. 10
6. (a) What is meant by occupational information? Why is it needed for guidance and counselling? 15
(b) Describe the clinical approach of guidance and counselling? 10
7. (a) What is a psychological test? You have been assigned to develop a psychological test which will be used for counselling the students of your institute. Describe the essential characteristics you would consider when you design and develop it. 15
(b) Discuss the limitations of psychological tests. "Interpretation of test scores plays a significant role in counselling", discuss the above statement. 10
8. (a) 'High or low aptitude in a given area does not mean good or bad'. Illustrate this statement based on the concept of aptitude according to Bingham and Dusen. State at least five characteristics of aptitude. 15
(b) What are the purposes of aptitude testing. Briefly describe the General Aptitude Test Battery (GATB) developed by the US Employment Service. 10

Program: B.Sc. TE (2-Yr), 2nd Semester

Date: 27 October, 2018

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Semester Final Examination

Course Code No: HUM 4249

Course Title: Technology, Environment and Society

Summer Semester (2017-2018)

Time : 3 hours

Full Marks : 150

There are 8 (eight) questions. Answer any 6 (six).

Figures in the right margin indicate full marks of the question(s).

1. a) Define Ecosystem? What are the components of an aquatic ecosystem? 10
b) Briefly describe ecosystem service provided by a forest ecosystem. 15
2. a) What are the main features of the delta ecosystem? What are the major environmental concerns in Bengal Delta? 15
b) Briefly discuss the impacts of climate change. 10
3. a) What is salinization? What are the drivers of salinization in the Bengal Delta? 12
b) What are the impacts of salinization on health? Briefly discuss the potential solution to reduce human sufferings from salinization. 13
4. a) How do you define Environment? What are the major components of earth system? 10
b) Briefly explain two examples of adaptation to climate change. 15
5. a) Define and classify biodiversity with examples. Why conserving biodiversity is important? 15
b) Which part of the world is rich in biodiversity and why? 10
6. a) Define Sustainable Development? Explain Gaia hypothesis. 10
b) What are the consequences of rising population on the environment? 15
7. a) List out ten major global environmental issues. 10
b) Briefly explain one of the important global environmental issues which have relevance to Bangladesh. 15
8. a) Mention sources of renewable energy and how renewable energy can help to protect our climate? 12
b) What are the impacts of ocean acidification? 13

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Semester Final Examination

Course Code No: TVE 4251

Course Title: Sociology of Education

Summer Semester (2017-2018)

Time : 3 hours

Full Marks : 150

There are 8 (eight) questions. Answer any 6 (six).Figures in the right margin indicate full marks of the question(s).

1. a) What is sociology of education? Derive values and scopes of sociology of education. 10
b) How can you solve social problems with education? Explain. 15
2. a) Explain how could a child brings to the school with his/her family culture. 10
b) "We want that education by which character is formed, strength of mind is increased, the intellect is expanded, and by which one can stand on one's own feet" - Comment. 15
3. a) According to 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". - Explain the statement in light of sociology of education. 10
b) Discuss role of a teacher to improve value system of the society. 15
4. a) What is shadowy society? Discus functions of education for social improvement. 10
b) Aristotle said: "Educating the mind without educating the heart is no education at all"- Do you agree? Explain the statement in light of social reformation. 15
5. a) What do you understand by educational leadership? Write your suggestions how to enhance esthetic values of society by educational leaders. 10
b) "Teacher is a leader of society and the leader is not born but made". - Clarify the statement. 15
6. a) "The quality of society depends upon the quality of teachers in the society" - Do you agree? Explain. 10
b) Identify and discuss the teacher's role in the society. 15
7. a) What is meant by "Educational Inequality"? How do educational inequalities hinder progress of social development? Discuss. 10
b) Narrate approaches that could be improved equality of educational opportunities for your students in your country. 15
8. a) Discuss 10 indicators for social development/change. 10
b) Write short notes on the following: 15
 (i) Social control
 (ii) Social mobility
 (iii) Social integration.

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Program: MSc. TE, 2nd Sem.

Date: 01 Nov, 2018

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ORGANISATION OF ISLAMIC COOPERATION (OIC)

Semester Final Examination

Course Code No: TVE 6273

Course Title: Management & Administration of TVE

Summer Semester (2017-2018)

Time : 3 hours

Full Marks : 150

There are 8 (eight) questions. Answer any 6 (six).

Figures in the right margin indicate full marks of the question(s).

1. What are the functions of a Manager? Is mere knowledge of management enough to become successful manager? Justify your answer. 25
2. Discuss and illustrate the meaning, definition and characteristics of management in modern organizations. 25
3. What are early evidences of management practice? Explain why division of labour and the industrial revolution are important to the study of management? 25
4. "F.W. Taylor is said to be the father of scientific management and Henri Fayol, the father of principles of management". Critically examine the statement. 25
5. a) Why is it important for every manager to understand the many different management theories that have been developed? 10
b) Describe various School of Thoughts prevalent from time to time. Which school of management thoughts makes the most sense to you? Why? 15
6. Write a note on the evolution of management thought. What are the recent trends in management thoughts? 25
7. a) "Human Behavioural School of thought is a modified version of Human Relations School of thought" Comment. 13
b) What is System Approach to management? Explain the salient features of this approach. 12
8. a) Assess the role of following in development of management thoughts:
 - (i) Henry Gantt 06
 - (ii) Weber 06
 - (iii) Maslow 07
 - (iv) Elton Mayo. 06

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Semester Final Examination

Course No: Hum 4257

Course Title: Islamic History Science and Culture

Summer Semester (2018-2019)

Time : 3 hrs

Full Marks : 150

There are 8(Eight) questions. Answer any 6 (six).
Figures in the right margin indicate marks of the questions.

1. a) What do you understand by the term **Culture**? Explain the function of **Culture**. 12
 b) Discuss the role of Imam, celebration of Eid-UI-Fitr, Eid-UI-Adha and respect for the elders and love for the youngsters. 13
2. a) "The notion of **Tawhid** is the most important corner stone in the conceptual frame work for the Islamic architecture". Clarify the term **Tawhid** or the (**God's Oneness**). 12
 b) Describe how the second **Calipha Umar IbnKhatab** succeeded in his conquests of the Arabs. Give the reasons and the names of the countries he conquered. 13
3. a) "**Allah** (God) fashioned humans from a clinging entity." Holy Qur'an 96:2. Explain the process of the implantation as mentioned in the **Holy Qur'an**. 12
 b) Explain the term "**Islam**" as a verb from the root "**aslama**" and what do you understand by the word Deen according to the **Holy Qur'an** and **Hadith** by Bukhari and **Omar bin Al-Khattab**. 13
4. a) "Verily, I created human kind from small quantity of mingled fluid." Qur'an, 77:2. Elucidate the process of fertilization as mentioned in Qur'an and coincided with science findings and discoveries. 13
 b) Briefly elaborate the death of **Abu Baker** (R) the first successor of the **Prophet(S)** in Medina 12
5. a) "The **Qur'an** and science have paid special attention to that deal with the water cycle in nature." Explain the water cycle and show the remarkable agreement between the Quran and science about the water cycle. 13
 b) Describe how the Islamic empire conquest of **Sassanid** Persian empire within **AbuBaker** Caliphate's time. 12
6. a) "Whoever follows a path seeking knowledge, Allah will make his path to paradise easy." Illustrate the close links between Islam and science and write two(2) more statements often-quoted by the Prophet Muhammad (S) which emphasises education and science. 13
 b) Discuss the battle on **Mount Uhud** between Muslims and Quraysh. 12
7. a) Explain the Prophet's birth and the physical description according to a Bedouin woman and elaborate the miracle of the Messenger (S) about the Milk-less sheep during one of his trips. 13
 b) Give the meaning of **Ibadah**. In short explain the two (2) conditions of **Ibadah**. 12
8. a) "Origin and development of the **Qur'an**(The Qur'an- Preservation at the time of **AbuBaker**(Ra) as prior to his death **Abu Baker** gave the authorized copy of the Qur'an to **Umar**(Ra)." Elaborate how the Qur'an was collected and written. 12
 b) Pilgrimage of fare-well, why it's called the Pilgrim of fare-well? What kind of Message was conveyed by the **Messenger(S)** to the people. 13

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Semester Final Examination

Course Code No: TVE 4279

Course Title: Educational Technology

Summer Semester (2017-2018)

Time : 3 hours

Full Marks : 100

There are 8 (eight) questions. Answer any 6 (six).

Figures in the right margin indicate full marks of the question(s).

1. a) What is educational technology and technology in education? 10
b) State macro and micro level objectives of educational technology. 6+2/3
2. a) How modern educational technologies change the process of teaching and learning? 10
b) Discuss characteristics of teaching and learning in TVET. 6+2/3
3. a) What are the teaching skills required for 21st century teachers? Discuss. 10
b) Define tasks of teaching. How does educational technology make teaching and learning digitalized and effective in the 21st century? 6+2/3
4. a) What are instructional objectives? Define SMART objectives for instruction. 10
b) Select a topic and design an instructional model in light of cognitive domain of Bloom's Taxonomy. 6+2/3
5. a) Derive major functions of teaching variables. Explain how the variables are responsible before designing and selecting the instructional technology. 10
b) "A good teacher is student, always a student but a good student" – Explain. 6+2/3
6. a) What is meant by 'theory of teaching'? Discuss the nature of 'theory of teaching'. 10
b) Discuss roles of ICTs in modern classrooms to improve teaching and learning. 6+2/3
7. a) What is learner controlled instruction (LCI)? How can you popularize LCI in your University? 10
b) Compare traditional instruction model and LCI model. 6+2/3
8. a) What is meant by technology-enhanced learning (TEL) and technology integrated into traditional learning (TITL)? What are the problems faced by traditional teachers when they enter inside TEL/TITL classrooms? Discuss. 10
b) Write short notes on the following: 6+2/3
 - (i) Cloud computing in education
 - (ii) e-Learning to enhance learning.