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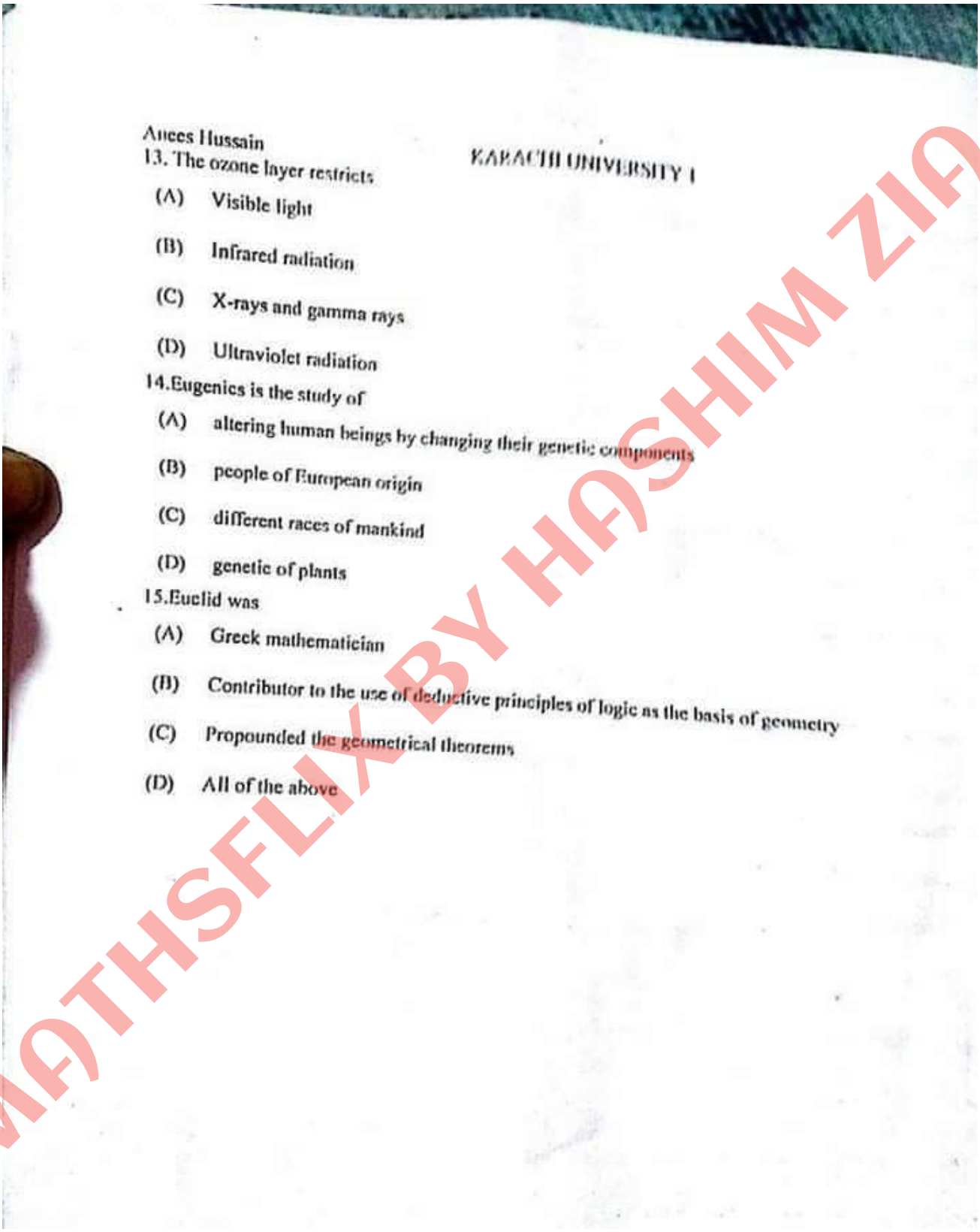

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13. The ozone layer restricts
(A) Visible light
(B) Infrared radiation
(C) X-rays and gamma rays
(D) Ultraviolet radiation

14. Eugenics is the study of
(A) altering human beings by changing their genetic components
(B) people of European origin
(C) different races of mankind
(D) genetic of plants

15. Euclid was
(A) Greek mathematician
(B) Contributor to the use of deductive principles of logic as the basis of geometry
(C) Propounded the geometrical theorems
(D) All of the above

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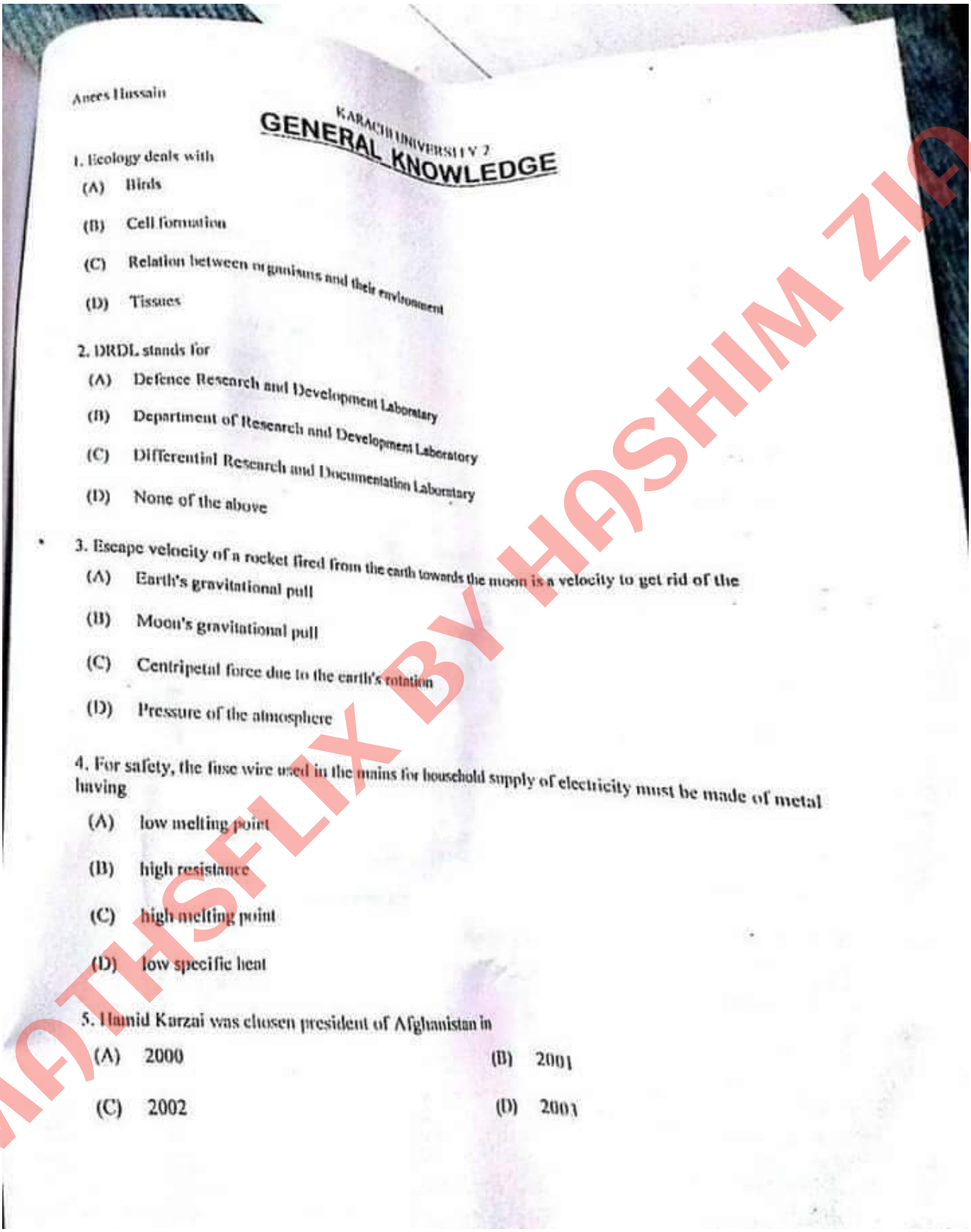

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GENERAL KNOWLEDGE

1. Ecology deals with
   (A) Birds
   (B) Cell formation
   (C) Relation between organisms and their environment
   (D) Tissues

2. DRDL stands for
   (A) Defence Research and Development Laboratary
   (B) Department of Research and Development Laboratory
   (C) Differential Research and Documentation Laboratary
   (D) None of the above

3. Escape velocity of a rocket fired from the earth towards the moon is a velocity to get rid of the
   (A) Earth's gravitational pull
   (B) Moon's gravitational pull
   (C) Centripetal force due to the earth's rotation
   (D) Pressure of the atmosphere

4. For safety, the fuse wire used in the mains for household supply of electricity must be made of metal having
   (A) low melting point
   (B) high resistance
   (C) high melting point
   (D) low specific heat

5. Hamid Karzai was chosen president of Afghanistan in
   (A) 2000 (B) 2001
   (C) 2002 (D) 2003

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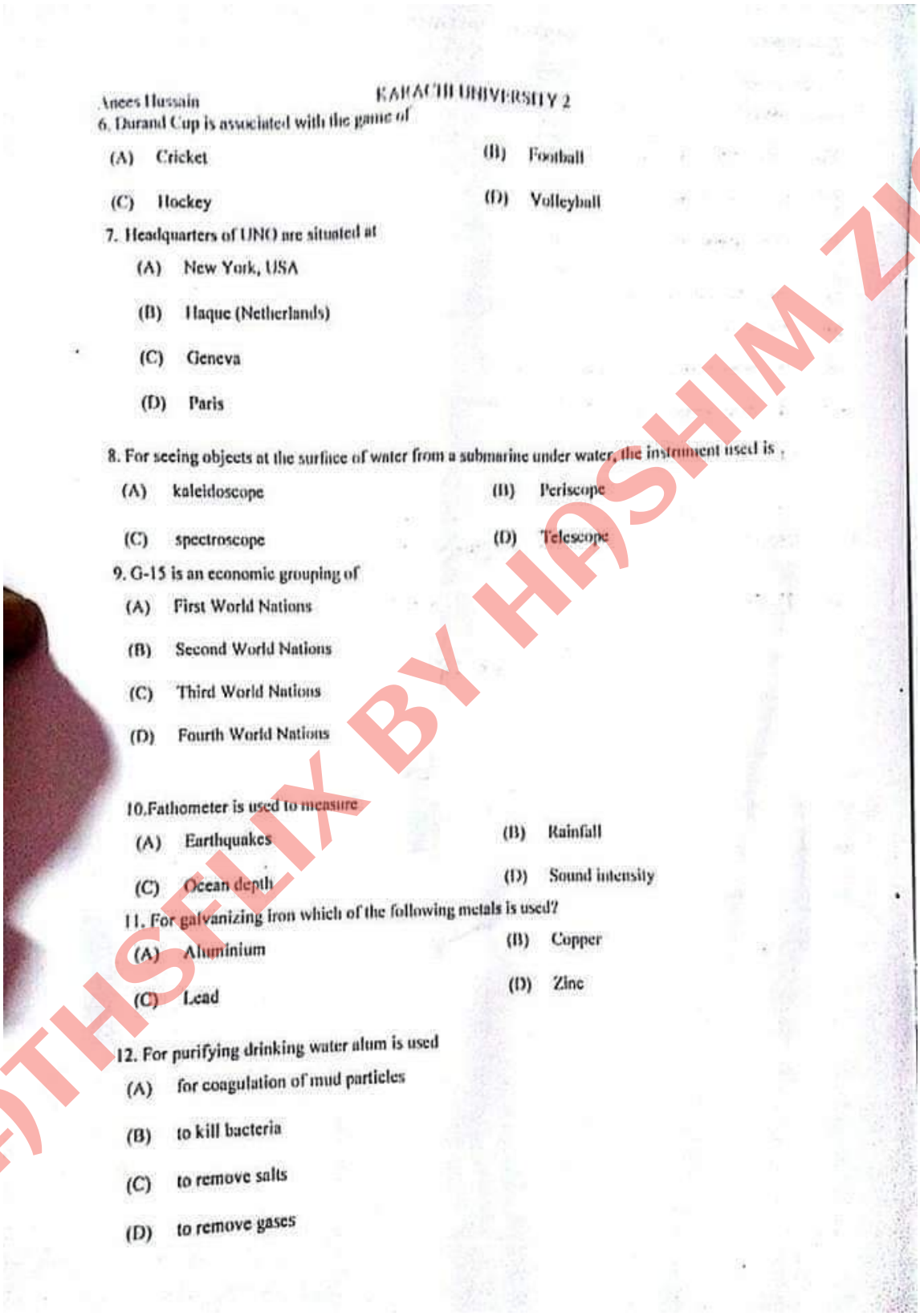

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6. Durand Cup is associated with the game of

(A) Cricket (B) Football

(C) Hockey (D) Volleyball

7. Headquarters of UNO are situated at

(A) New York, USA

(B) Haque (Netherlands)

(C) Geneva

(D) Paris

8. For seeing objects at the surface of water from a submarine under water, the instrument used is

(A) kaleidoscope (B) Periscope

(C) spectroscope (D) Telescope

9. G-15 is an economic grouping of

(A) First World Nations

(B) Second World Nations

(C) Third World Nations

(D) Fourth World Nations

10. Fathometer is used to measure

(A) Earthquakes (B) Rainfall

(C) Ocean depth (D) Sound intensity

11. For galvanizing iron which of the following metals is used?

(A) Aluminium (B) Copper

(C) Lead (D) Zinc

12. For purifying drinking water alum is used

(A) for coagulation of mud particles

(B) to kill bacteria

(C) to remove salts

(D) to remove gases

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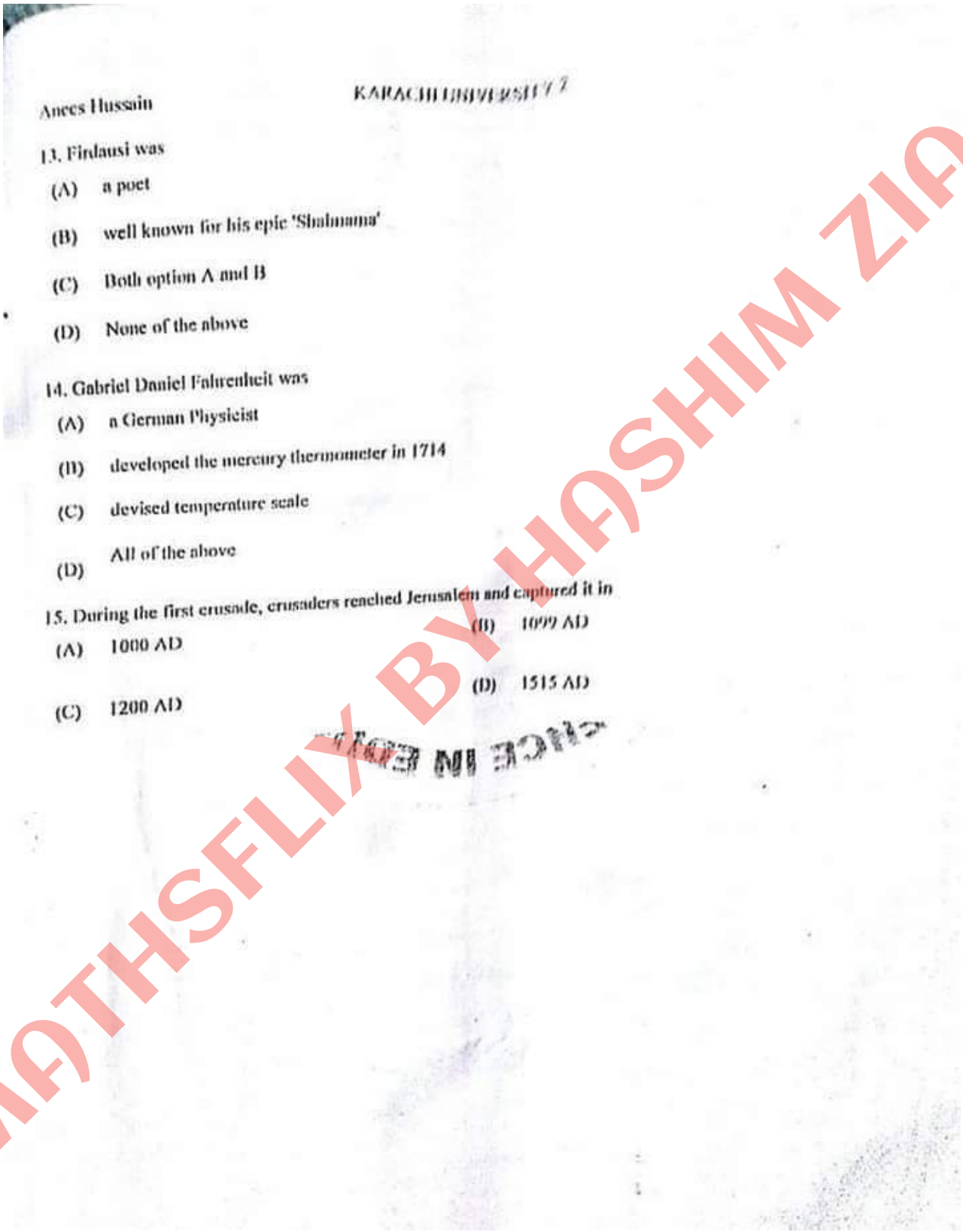

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13. Firdausi was
(A) a poet
(B) well known for his epic 'Shahnama'
(C) Both option A and B
(D) None of the above

14. Gabriel Daniel Fahrenheit was
(A) a German Physicist
(B) developed the mercury thermometer in 1714
(C) devised temperature scale
(D) All of the above

15. During the first crusade, crusaders reached Jerusalem and captured it in
(A) 1000 AD
(B) 1099 AD
(C) 1200 AD
(D) 1515 AD

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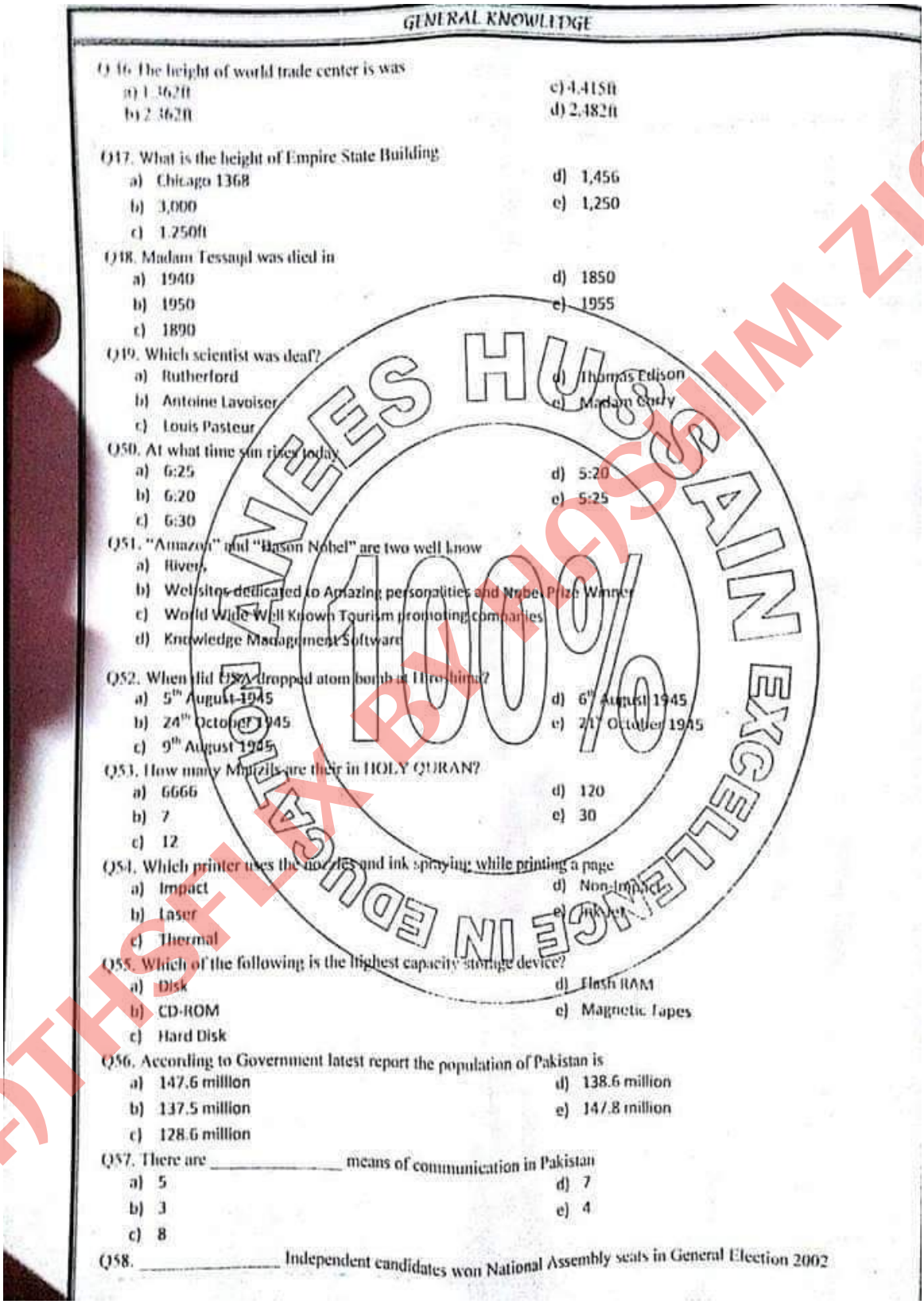

GENERAL KNOWLEDGE

Q 16. The height of world trade center is was
a) 1,362ft
b) 2,362ft
c) 4,415ft
d) 2,482ft

Q17. What is the height of Empire State Building
a) Chicago 1368
b) 3,000
c) 1,250ft
d) 1,456
e) 1,250

Q18. Madam Tessaqd was died in
a) 1940
b) 1950
c) 1890
d) 1850
e) 1955

Q19. Which scientist was deaf?
a) Rutherford
b) Antoine Lavoiser
c) Louis Pasteur
d) Thomas Edison
e) Madam Curry

Q50. At what time sun rises today
a) 6:25
b) 6:20
c) 6:30
d) 5:20
e) 5:25

Q51. "Amazon" and "Nason Nobel" are two well know
a) River,
b) Websites dedicated to Amazing personalities and Nobel Prize Winner
c) World Wide Well Known Tourism promoting companies
d) Knowledge Management Software

Q52. When did USA dropped atom bomb at Hiroshima?
a) 5th August 1945
b) 24th October 1945
c) 9th August 1945
d) 6th August 1945
e) 21st October 1945

Q53. How many Manzils are their in HOLY QURAN?
a) 6666
b) 7
c) 12
d) 120
e) 30

Q54. Which printer uses the nozzles and ink spraying while printing a page
a) Impact
b) Laser
c) Thermal
d) Non-Impact
e) Inkjet

Q55. Which of the following is the highest capacity storage device?
a) Disk
b) CD-ROM
c) Hard Disk
d) Flash RAM
e) Magnetic Tapes

Q56. According to Government latest report the population of Pakistan is
a) 147.6 million
b) 137.5 million
c) 128.6 million
d) 138.6 million
e) 147.8 million

Q57. There are _____ means of communication in Pakistan
a) 5
b) 3
c) 8
d) 7
e) 4

Q58. _____ Independent candidates won National Assembly seats in General Election 2002

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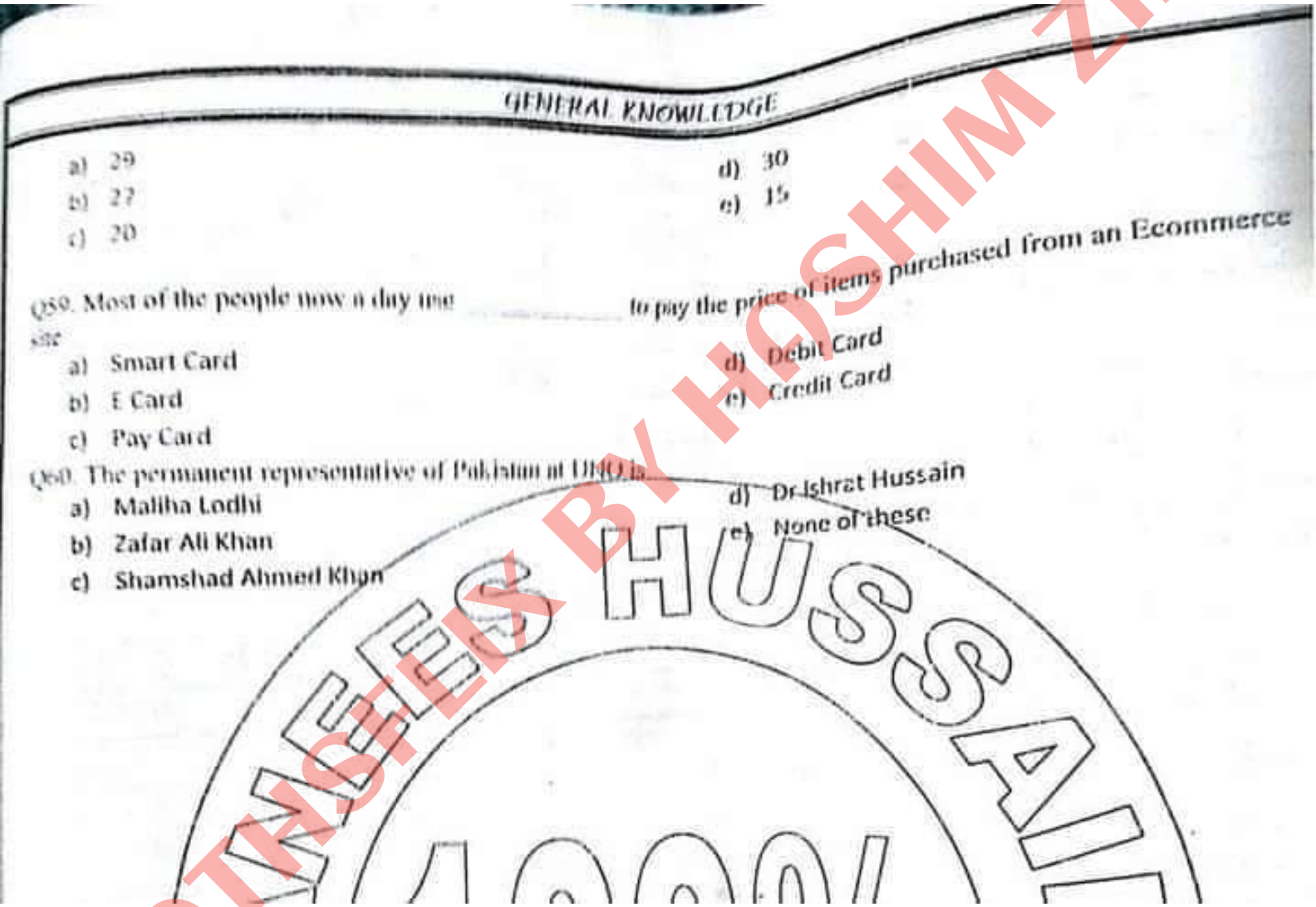

GENERAL KNOWLEDGE

a) 29
b) 27
c) 20
d) 30
e) 15

Q59. Most of the people now a day use _____ to pay the price of items purchased from an Ecommerce site

a) Smart Card
b) E Card
c) Pay Card
d) Debit Card
e) Credit Card

Q60. The permanent representative of Pakistan at UNO is

a) Maliha Lodhi
b) Zafar Ali Khan
c) Shamshad Ahmed Khan
d) Dr Ishrat Hussain
e) None of these

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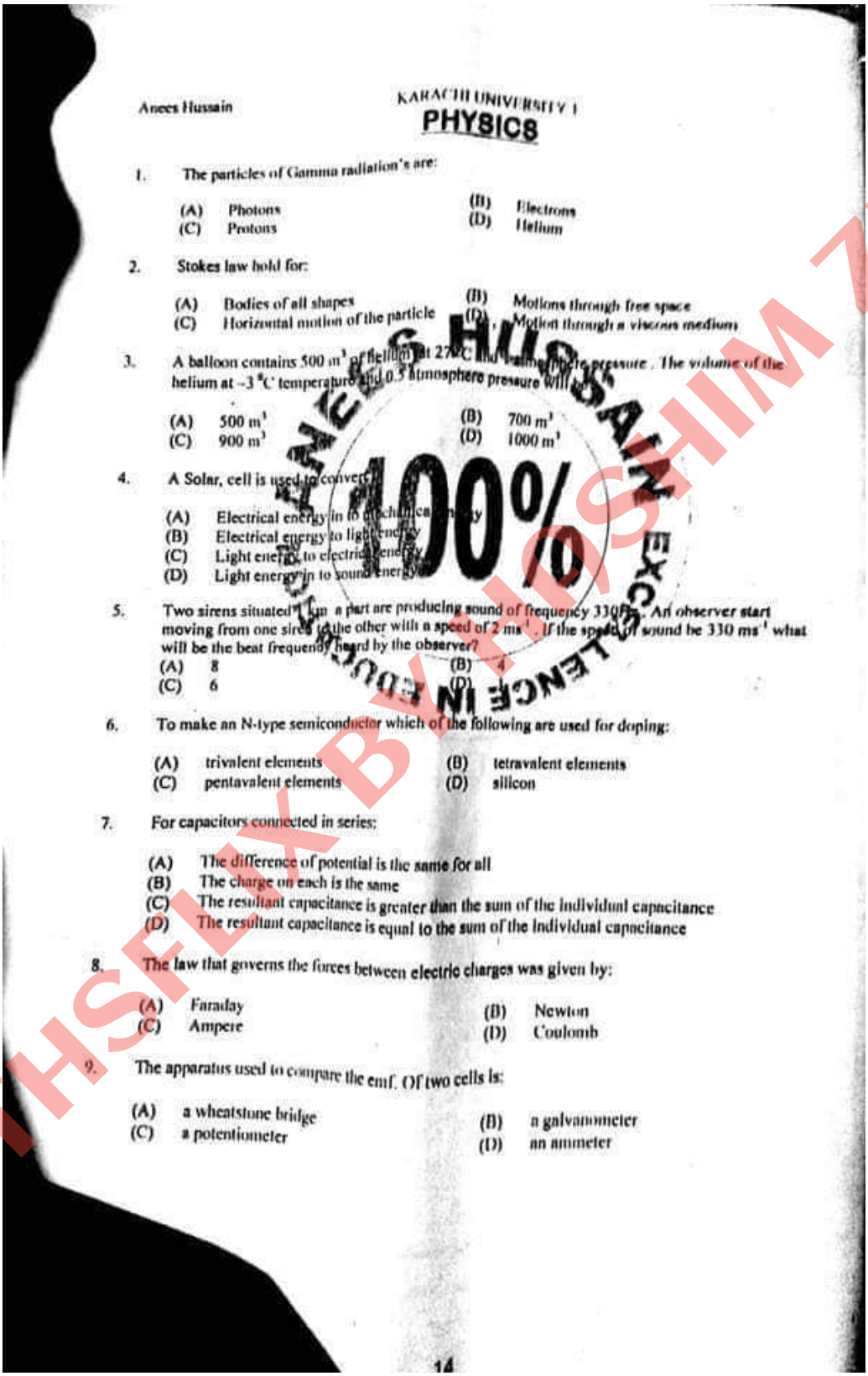

Anees Hussain

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PHYSICS

1. The particles of Gamma radiation's are:

(A) Photons (B) Electrons
(C) Protons (D) Helium

2. Stokes law hold for:

(A) Bodies of all shapes (B) Motions through free space
(C) Horizontal motion of the particle (D) Motion through a viscous medium

3. A balloon contains 500 m^3 of helium at 27°C and [illegible] pressure. The volume of the helium at −3 °C temperature and 0.5 atmosphere pressure will be:

(A) 500 m^3 (B) 700 m^3
(C) 900 m^3 (D) 1000 m^3

4. A Solar cell is used to convert:

(A) Electrical energy in to mechanical energy
(B) Electrical energy to light energy
(C) Light energy to electrical energy
(D) Light energy in to sound energy

5. Two sirens situated 1 km a part are producing sound of frequency 330 Hz. An observer start moving from one siren to the other with a speed of 2 ms^{-1}. If the speed of sound be 330 ms^{-1} what will be the beat frequency heard by the observer?

(A) 8 (B) 4
(C) 6 (D) 1

6. To make an N-type semiconductor which of the following are used for doping:

(A) trivalent elements (B) tetravalent elements
(C) pentavalent elements (D) silicon

7. For capacitors connected in series:

(A) The difference of potential is the same for all
(B) The charge on each is the same
(C) The resultant capacitance is greater than the sum of the individual capacitance
(D) The resultant capacitance is equal to the sum of the individual capacitance

8. The law that governs the forces between electric charges was given by:

(A) Faraday (B) Newton
(C) Ampere (D) Coulomb

9. The apparatus used to compare the emf. Of two cells is:

(A) a wheatstone bridge (B) a galvanometer
(C) a potentiometer (D) an ammeter

14

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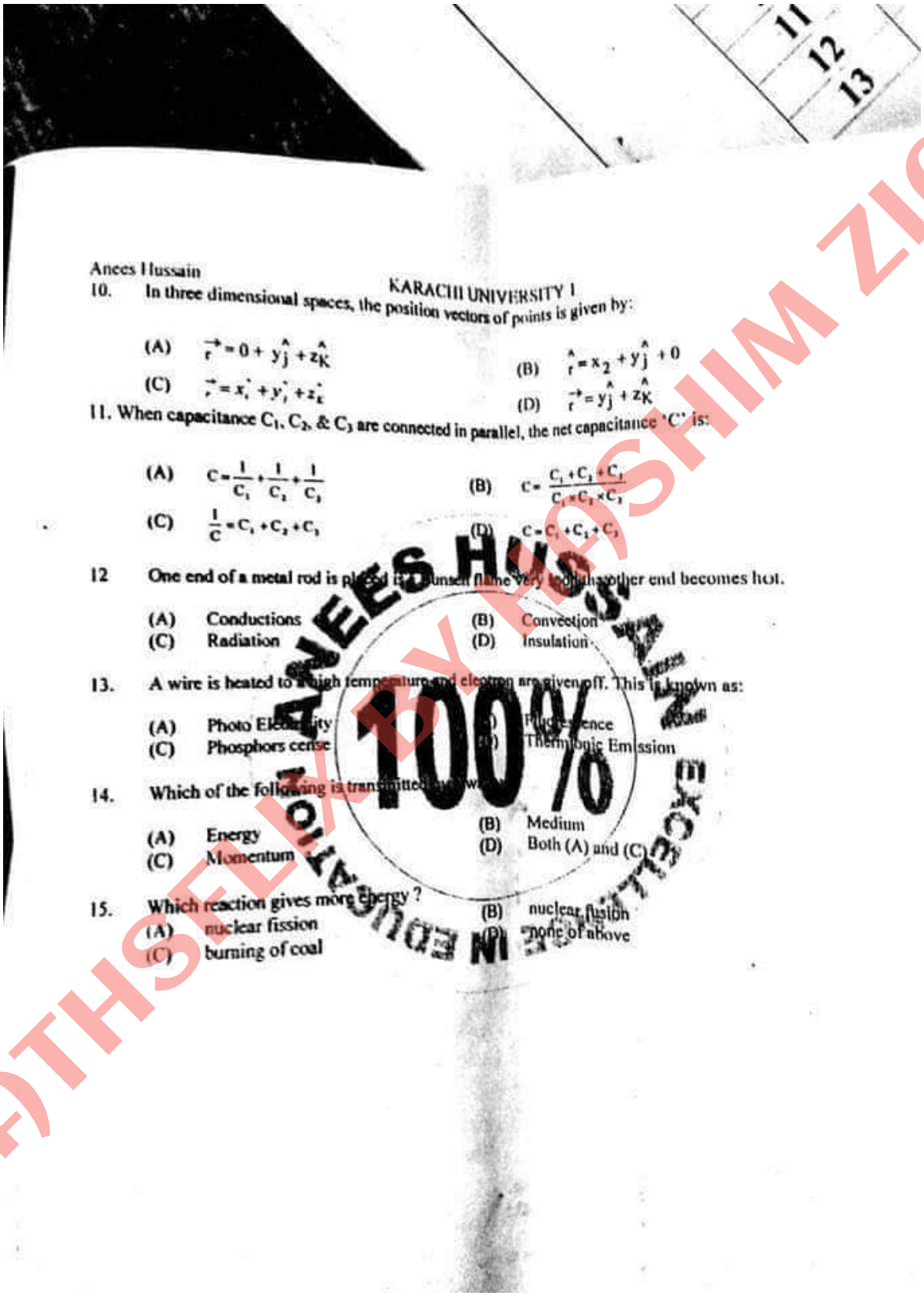

Anees Hussain

KARACHI UNIVERSITY I

10. In three dimensional spaces, the position vectors of points is given by:

(A) $\vec{r} = 0 + y\hat{j} + z\hat{k}$ (B) $\hat{r} = x_2 + y\hat{j} + 0$

(C) $\vec{r} = x_i + y_j + z_k$ (D) $\vec{r} = y\hat{j} + z\hat{k}$

11. When capacitance C_1, C_2, & C_3 are connected in parallel, the net capacitance 'C' is:

(A) $C = \frac{1}{C_1} + \frac{1}{C_2} + \frac{1}{C_3}$ (B) $C = \frac{C_1 + C_2 + C_3}{C_1 \times C_2 \times C_3}$

(C) $\frac{1}{C} = C_1 + C_2 + C_3$ (D) $C = C_1 + C_2 + C_3$

12 One end of a metal rod is placed in a Bunsen flame very [illegible] other end becomes hot.

(A) Conductions (B) Convection

(C) Radiation (D) Insulation

13. A wire is heated to a high temperature and electron are given off. This is known as:

(A) Photo Electricity (B) Fluorescence

(C) Phosphors cense (D) Thermionic Emission

14. Which of the following is transmitted [illegible]

(A) Energy (B) Medium

(C) Momentum (D) Both (A) and (C)

15. Which reaction gives more energy ?

(A) nuclear fission (B) nuclear fusion

(C) burning of coal (D) none of above

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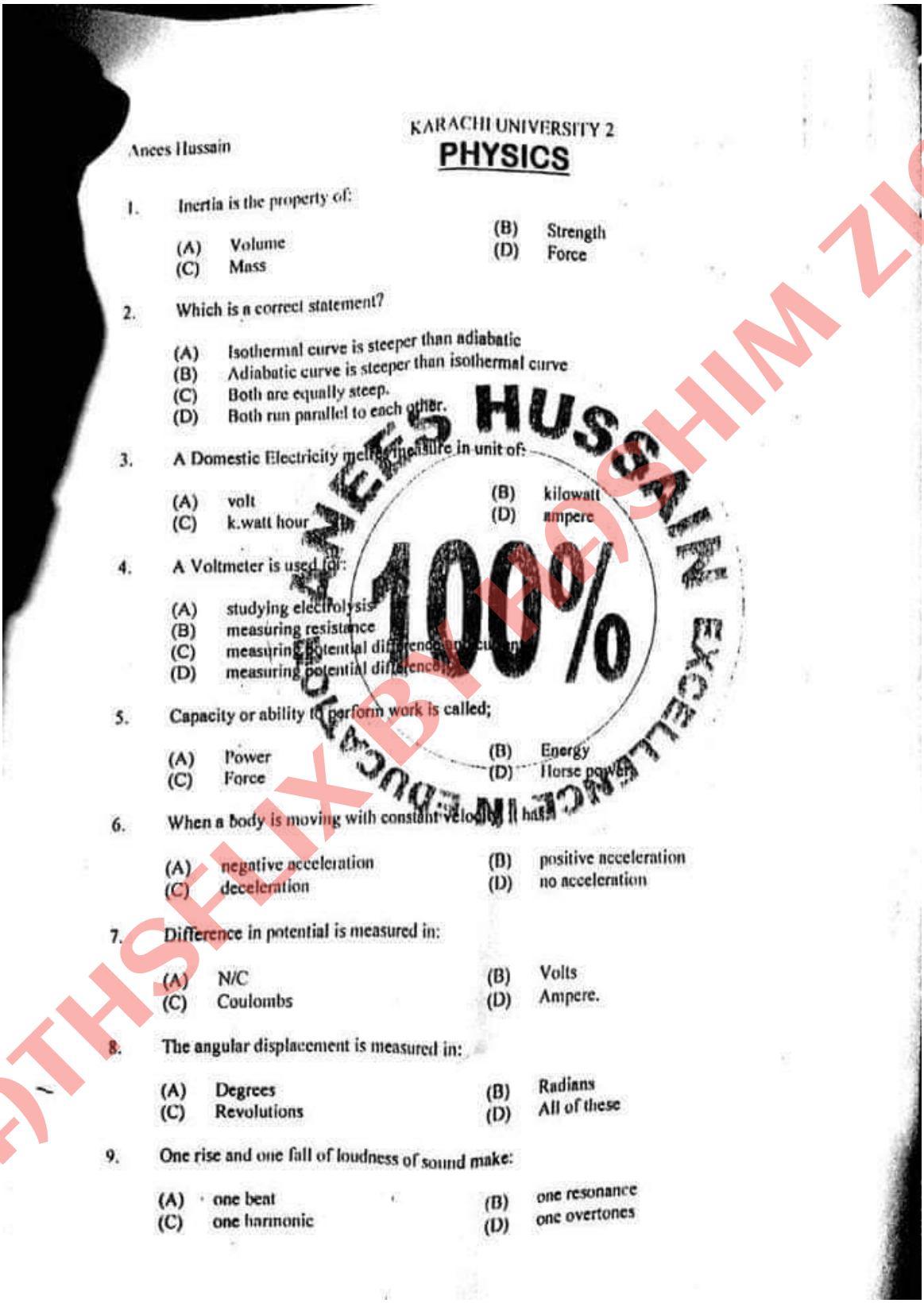

KARACHI UNIVERSITY 2

Anees Hussain

PHYSICS

1. Inertia is the property of:

(A) Volume (B) Strength
(C) Mass (D) Force

2. Which is a correct statement?

(A) Isothermal curve is steeper than adiabatic
(B) Adiabatic curve is steeper than isothermal curve
(C) Both are equally steep.
(D) Both run parallel to each other.

3. A Domestic Electricity meter measure in unit of:

(A) volt (B) kilowatt
(C) k.watt hour (D) ampere

4. A Voltmeter is used for:

(A) studying electrolysis
(B) measuring resistance
(C) measuring potential difference
(D) measuring potential difference

5. Capacity or ability to perform work is called;

(A) Power (B) Energy
(C) Force (D) Horse power

6. When a body is moving with constant velocity it has:

(A) negative acceleration (B) positive acceleration
(C) deceleration (D) no acceleration

7. Difference in potential is measured in:

(A) N/C (B) Volts
(C) Coulombs (D) Ampere.

8. The angular displacement is measured in:

(A) Degrees (B) Radians
(C) Revolutions (D) All of these

9. One rise and one fall of loudness of sound make:

(A) one beat (B) one resonance
(C) one harmonic (D) one overtones

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10. Power is defined as:

(A) Rate at which an agency does work (B) Total work done by an agency
(C) Both A & B are true (D) Both A & B are wrong

11. A pendulum on the earth has a time-period of 1 second Its time period in a box orbiting around the earth at a distance R from the surface of the earth will be? (R = radius of the earth)

(A) 5 s (B) 1 s
(C) zero (C) infinity

12. Which one of the following properties is not found in both sound and light.

(A) interference (B) diffraction
(C) polarization (D) reflection

13. A stone is dropped from high rock and at the time, another stone of same mass is thrown horizontally with a velocity of 200 m/s. Which one will reach the ground first? (neglect the air friction).

(A) first stone (B) second stone
(C) both will reach at same time (D) cannot be determined from the given data

14. Heat is flowing from higher to lower temperature through actual mass motion of the molecules is due to:

(A) Radiation (B) Convection
(C) Conduction (D) None of these

15. For constructive interference, the path difference between the two interfering waves coming from his coherent source should be:

(A) odd multiple of $\lambda/4$ (B) even multiple $\lambda/2$
(C) odd multiple of $\lambda/2$ (D) even multiple of $\lambda/4$

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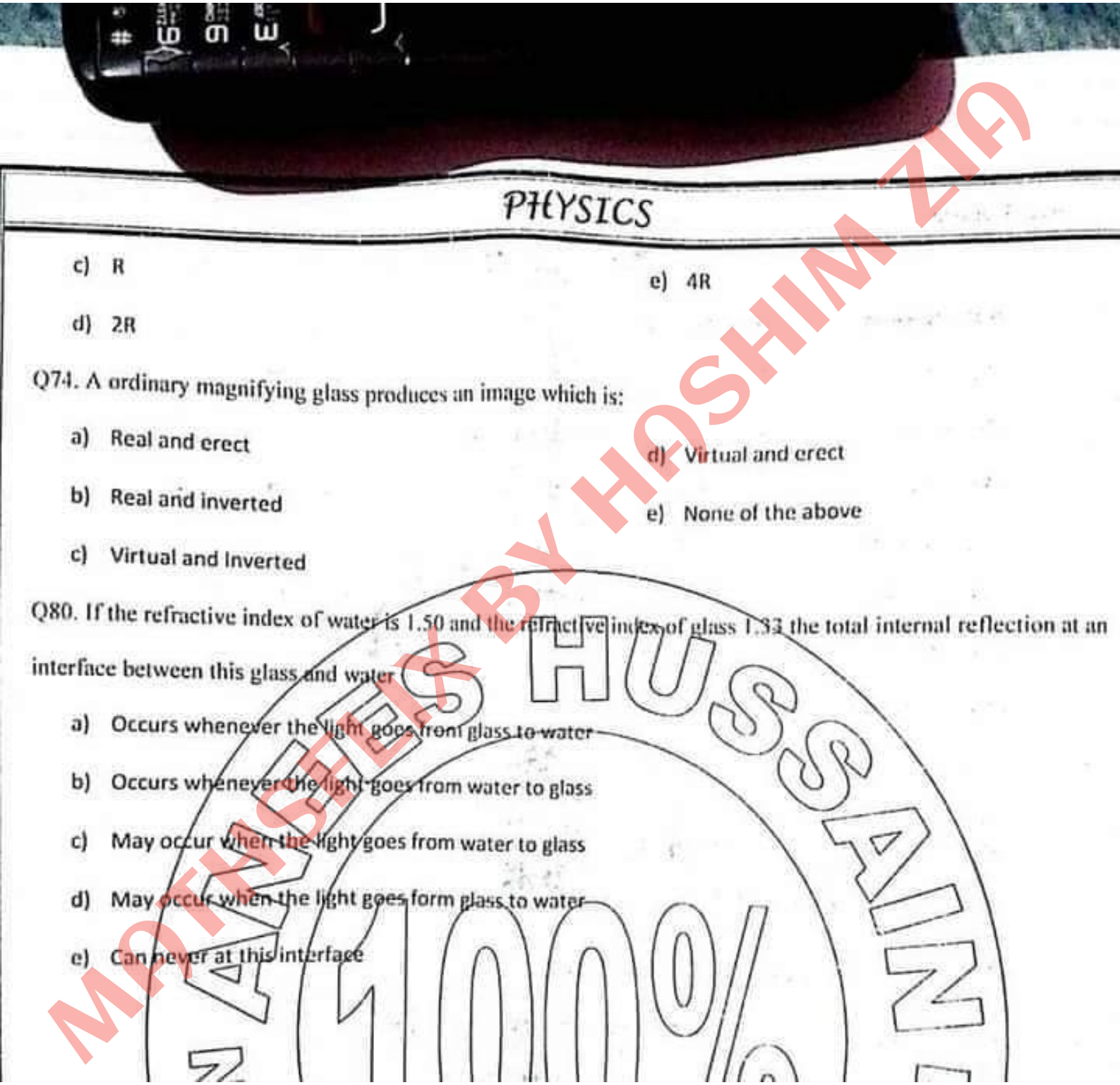

PHYSICS

c) R

d) 2R

e) 4R

Q74. A ordinary magnifying glass produces an image which is:

a) Real and erect

b) Real and inverted

c) Virtual and Inverted

d) Virtual and erect

e) None of the above

Q80. If the refractive index of water is 1.50 and the refractive index of glass 1.33 the total internal reflection at an interface between this glass and water

a) Occurs whenever the light goes from glass to water

b) Occurs whenever the light goes from water to glass

c) May occur when the light goes from water to glass

d) May occur when the light goes form glass to water

e) Can never at this interface

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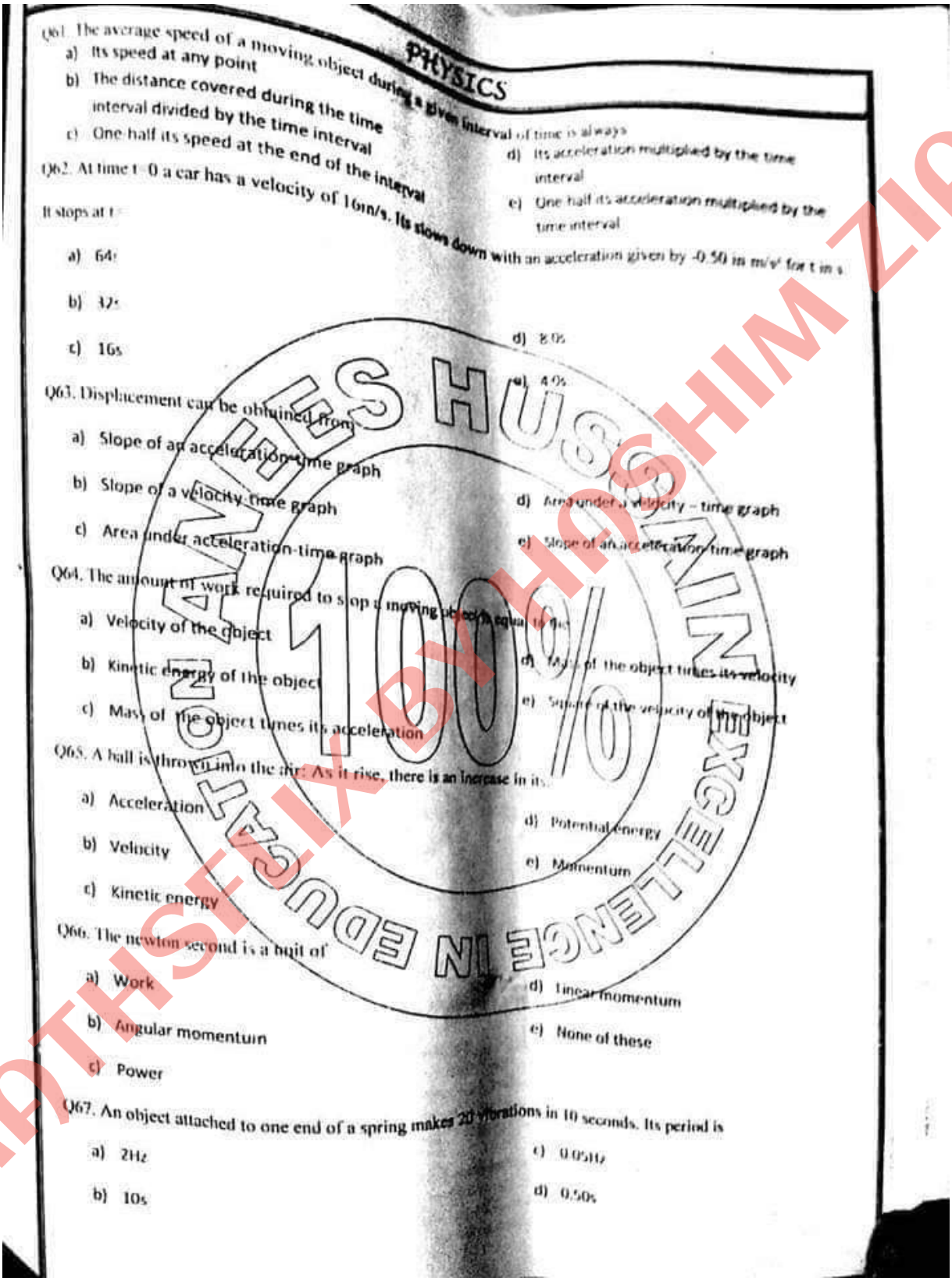

PHYSICS

Q61. The average speed of a moving object during a given interval of time is always
a) Its speed at any point
b) The distance covered during the time interval divided by the time interval
c) One half its speed at the end of the interval
d) Its acceleration multiplied by the time interval
e) One half its acceleration multiplied by the time interval

Q62. At time t = 0 a car has a velocity of 16m/s. Its slows down with an acceleration given by -0.50 m/s² for t in s. It stops at t =
a) 64s
b) 32s
c) 16s
d) 8.0s
e) 4.0s

Q63. Displacement can be obtained from
a) Slope of an acceleration-time graph
b) Slope of a velocity-time graph
c) Area under acceleration-time graph
d) Area under a velocity – time graph
e) Slope of an acceleration-time graph

Q64. The amount of work required to stop a moving object is equal to the
a) Velocity of the object
b) Kinetic energy of the object
c) Mass of the object times its acceleration
d) Mass of the object times its velocity
e) Square of the velocity of the object

Q65. A ball is thrown into the air. As it rise, there is an increase in its
a) Acceleration
b) Velocity
c) Kinetic energy
d) Potential energy
e) Momentum

Q66. The newton second is a unit of
a) Work
b) Angular momentum
c) Power
d) Linear momentum
e) None of these

Q67. An object attached to one end of a spring makes 20 vibrations in 10 seconds. Its period is
a) 2Hz
b) 10s
c) 0.05Hz
d) 0.50s

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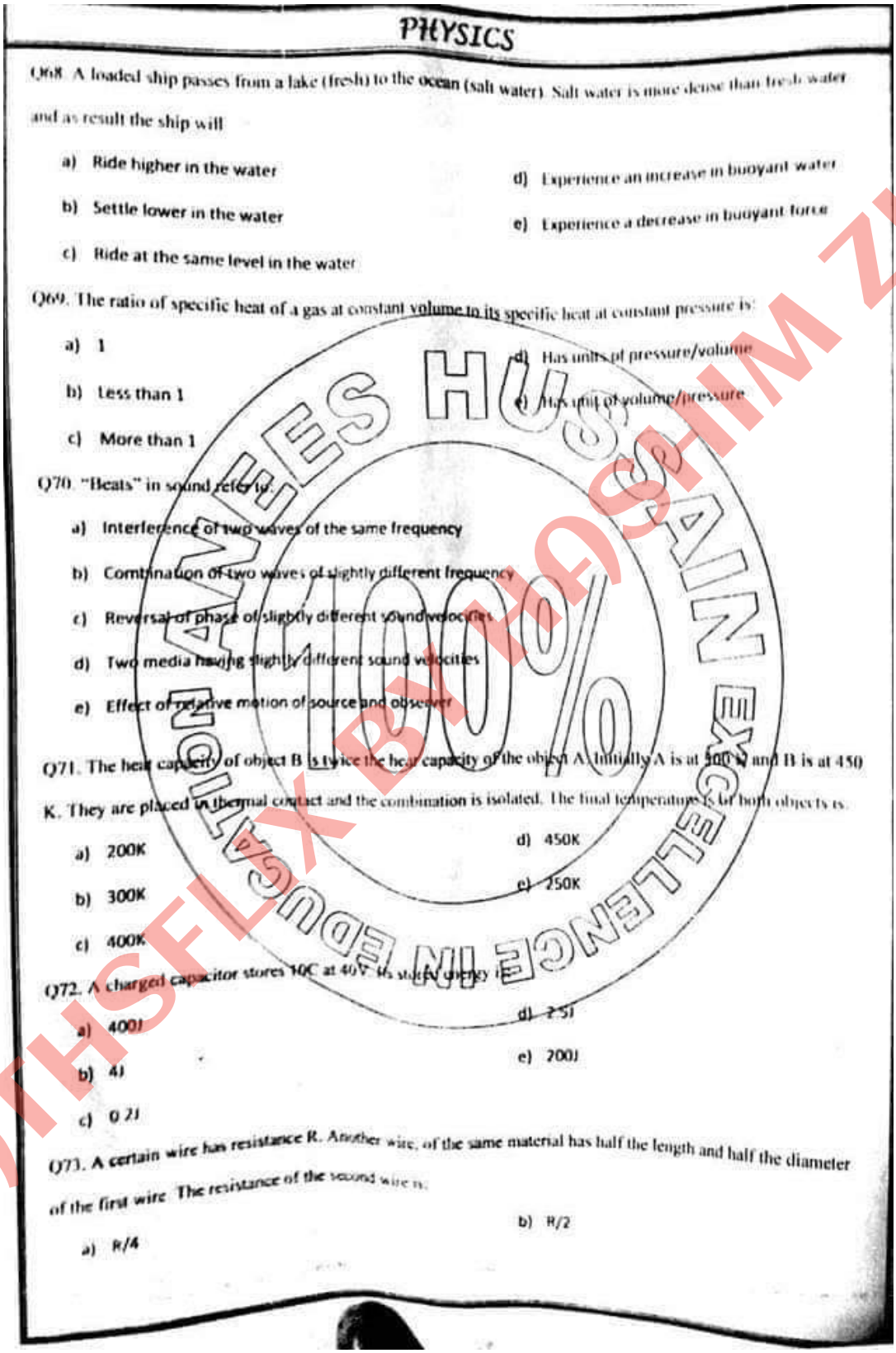

PHYSICS

Q68. A loaded ship passes from a lake (fresh) to the ocean (salt water). Salt water is more dense than fresh water and as result the ship will

a) Ride higher in the water
b) Settle lower in the water
c) Ride at the same level in the water
d) Experience an increase in buoyant water
e) Experience a decrease in buoyant force

Q69. The ratio of specific heat of a gas at constant volume to its specific heat at constant pressure is:

a) 1
b) Less than 1
c) More than 1
d) Has units of pressure/volume
e) Has unit of volume/pressure

Q70. "Beats" in sound refer to:

a) Interference of two waves of the same frequency
b) Combination of two waves of slightly different frequency
c) Reversal of phase of slightly different sound velocities
d) Two media having slightly different sound velocities
e) Effect of relative motion of source and observer

Q71. The heat capacity of object B is twice the heat capacity of the object A. Initially A is at 300 K and B is at 450 K. They are placed in thermal contact and the combination is isolated. The final temperature is of both objects is:

a) 200K
b) 300K
c) 400K
d) 450K
e) 250K

Q72. A charged capacitor stores 10C at 40V. Its stored energy is:

a) 400J
b) 4J
c) 0.2J
d) 2.5J
e) 200J

Q73. A certain wire has resistance R. Another wire, of the same material has half the length and half the diameter of the first wire. The resistance of the second wire is:

a) R/4
b) R/2

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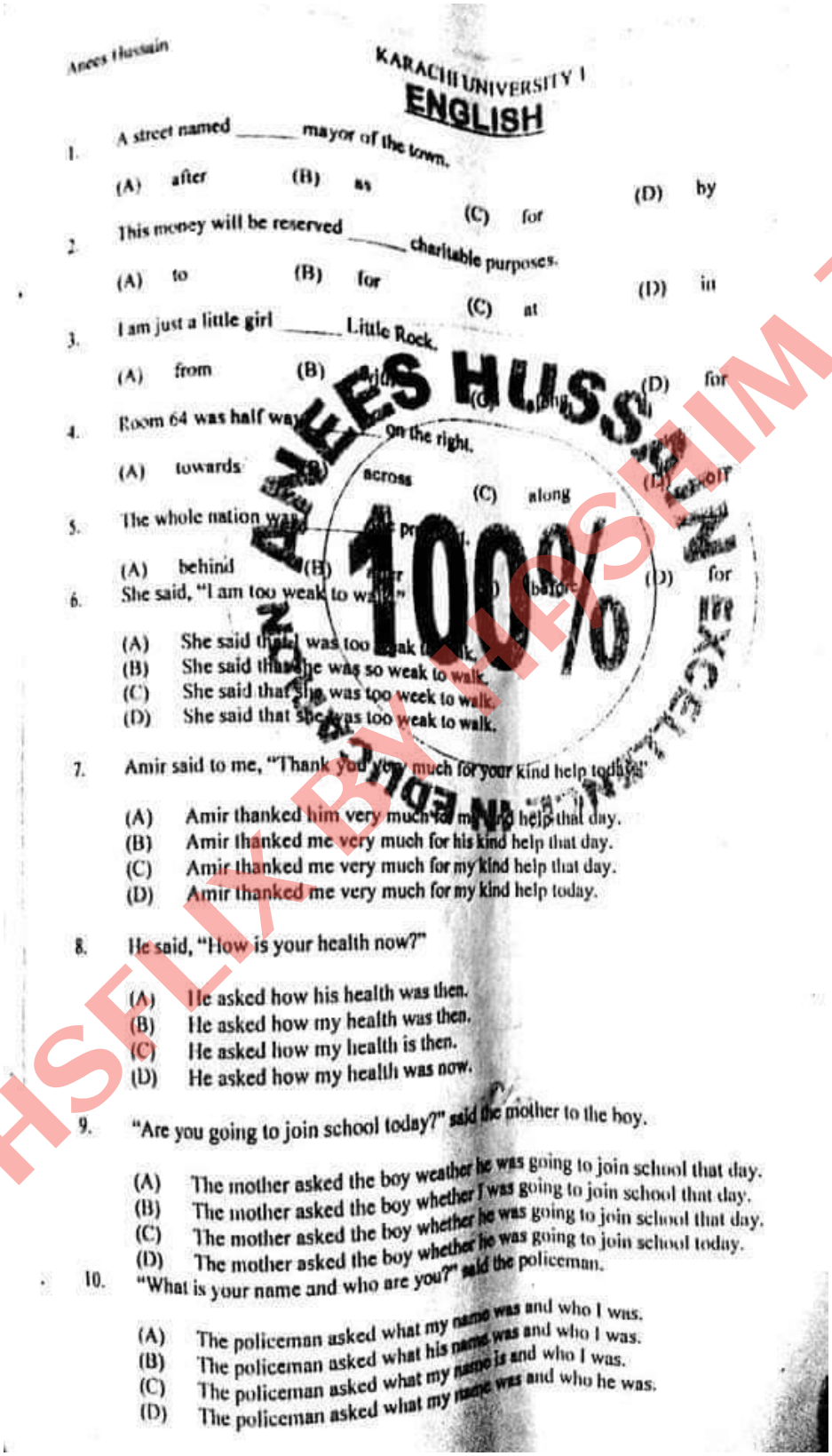

Anees Hussain

KARACHI UNIVERSITY

ENGLISH

1. A street named _____ mayor of the town.
(A) after (B) as (C) for (D) by

2. This money will be reserved _____ charitable purposes.
(A) to (B) for (C) at (D) in

3. I am just a little girl _____ Little Rock.
(A) from (B) [illegible] (C) [illegible] (D) for

4. Room 64 was half way _____ on the right.
(A) towards (B) across (C) along (D) [illegible]

5. The whole nation was _____ [illegible]
(A) behind (B) [illegible] (C) [illegible] (D) for

6. She said, "I am too weak to walk."
(A) She said that I was too weak to walk.
(B) She said that she was so weak to walk.
(C) She said that she was too week to walk.
(D) She said that she was too weak to walk.

7. Amir said to me, "Thank you very much for your kind help today."
(A) Amir thanked him very much for my kind help that day.
(B) Amir thanked me very much for his kind help that day.
(C) Amir thanked me very much for my kind help that day.
(D) Amir thanked me very much for my kind help today.

8. He said, "How is your health now?"
(A) He asked how his health was then.
(B) He asked how my health was then.
(C) He asked how my health is then.
(D) He asked how my health was now.

9. "Are you going to join school today?" said the mother to the boy.
(A) The mother asked the boy weather he was going to join school that day.
(B) The mother asked the boy whether I was going to join school that day.
(C) The mother asked the boy whether he was going to join school that day.
(D) The mother asked the boy whether he was going to join school today.

10. "What is your name and who are you?" said the policeman.
(A) The policeman asked what my name was and who I was.
(B) The policeman asked what his name was and who I was.
(C) The policeman asked what my name is and who I was.
(D) The policeman asked what my name was and who he was.

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Anees Hussain KARACHI UNIVERSITY 1

PASSAGE: Answer Questions 11 - 15 based on the following passage

Lew Archer, the detective hero created by Rose Mac Donald in "The Moving Target" (1949), is more literary in the tastes than Mike Hammer , and so more apt to muse on fate and the past than to create a political philosophy out of the individualist fantasies of the present . In part Archer owes his special sensitivity to the fact that his creator placed him in the hastily thrown up world of California and the west coast rather than in the grimy eastern cities of Spillane and Hammer. Attuned to history as much as to action , Archer is more fascinated by the past patterns of relationships that erupt into the present than by the immediacies of violence and personal confrontation. Like other American naturalists, both Archer and Hammer pride themselves on their ability to be known in all the parts of town and country. But Mac Donald explores what Spillane essentially disregards the intricacies of family and the gradation of social class. This Spillace's hero seems to spring from Hammer and Hemingway, while Mac Donald's Archer owes his linkage to Chandler and Faulkner.

11. What is the author's main purpose in the passage?

(A) To explain the plot of the Moving Target
(B) To show the importance of setting in the detective novel
(C) To prove that Archer and Hammer are literary figures
(D) To compare two characters in detective fiction

12. In the second sentence of the passage the word "creator" refers to a

(A) Fantasist
(B) Naturalist
(C) Writer
(D) Philosopher

13. Which of the following is LEAST likely to be characteristic of an Archer story ?

(A) A violent argument
(B) A California setting
(C) A concern with social class
(D) A study of family relationship

14. Which of the following best describes Mac Donald's relationship to Chandler and Faulkner?

(A) Mac Donald portrayed the lives of Chandler and Faulkner in one of his novel.
(B) Mac Donald followed in the tradition of Chandler and Faulkner.
(C) Mac Donald influenced the work of Chandler and Faulkner.
(D) Mac Donald disregarded the intricacies of chandler and Faulkner.

15. The paragraph preceding the passage probably discussed the writing of which of the following individuals ?

(A) Hemingway
(B) Chandler
(C) Spillane
(D) Faulkner

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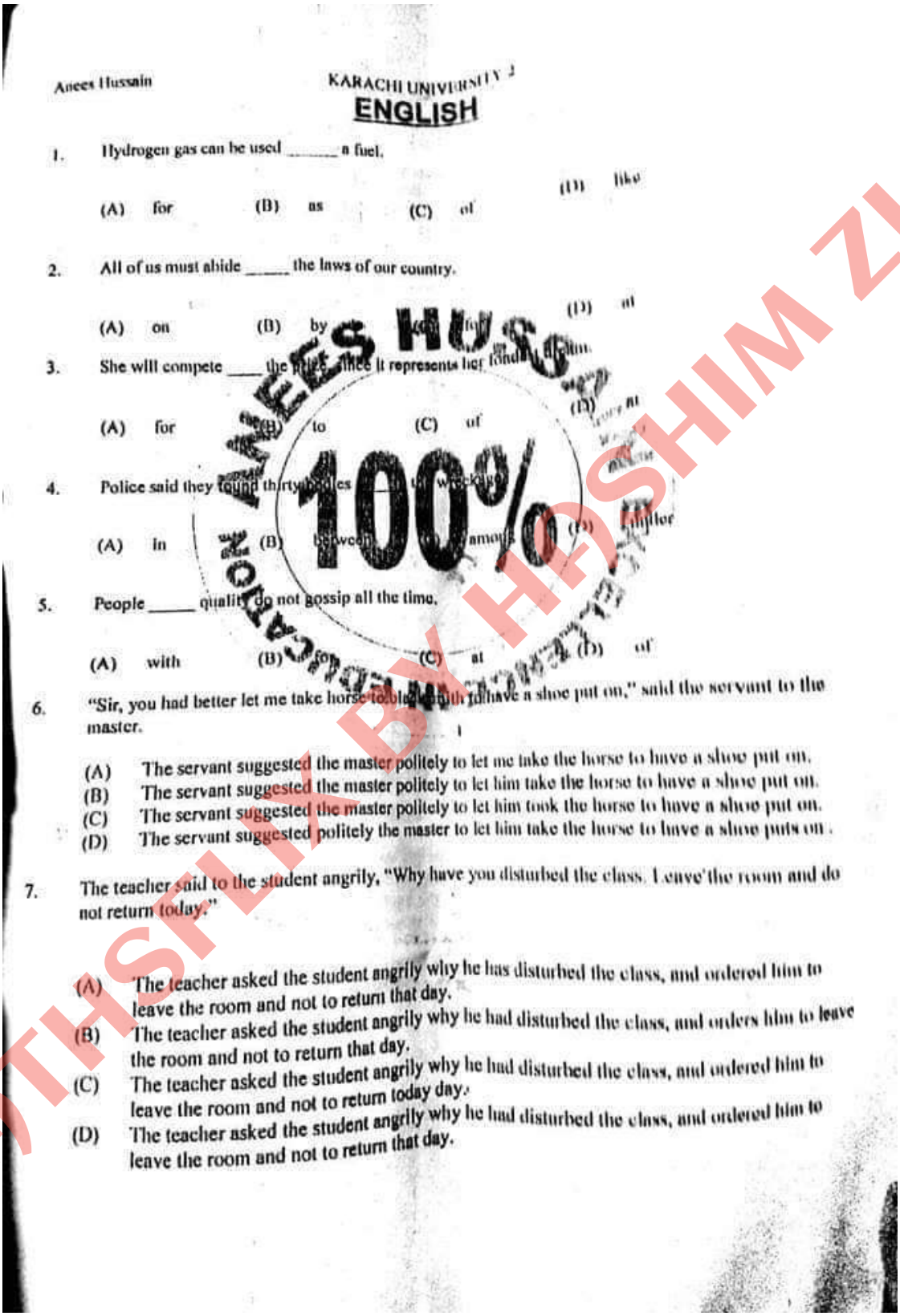

Aneez Hussain

KARACHI UNIVERSITY

ENGLISH

1. Hydrogen gas can be used _____ a fuel.

(A) for (B) as (C) of (D) like

2. All of us must abide _____ the laws of our country.

(A) on (B) by (C) for (D) at

3. She will compete _____ the prize since it represents her land.

(A) for (B) to (C) of (D) at

4. Police said they found thirty bodies _____ the wreckage.

(A) in (B) between (C) among (D) amidst

5. People _____ quality do not gossip all the time.

(A) with (B) for (C) at (D) of

6. "Sir, you had better let me take horse to the smith to have a shoe put on," said the servant to the master.

(A) The servant suggested the master politely to let me take the horse to have a shoe put on.
(B) The servant suggested the master politely to let him take the horse to have a shoe put on.
(C) The servant suggested the master politely to let him took the horse to have a shoe put on.
(D) The servant suggested politely the master to let him take the horse to have a shoe puts on.

7. The teacher said to the student angrily, "Why have you disturbed the class. Leave the room and do not return today."

(A) The teacher asked the student angrily why he has disturbed the class, and ordered him to leave the room and not to return that day.
(B) The teacher asked the student angrily why he had disturbed the class, and orders him to leave the room and not to return that day.
(C) The teacher asked the student angrily why he had disturbed the class, and ordered him to leave the room and not to return today day.
(D) The teacher asked the student angrily why he had disturbed the class, and ordered him to leave the room and not to return that day.

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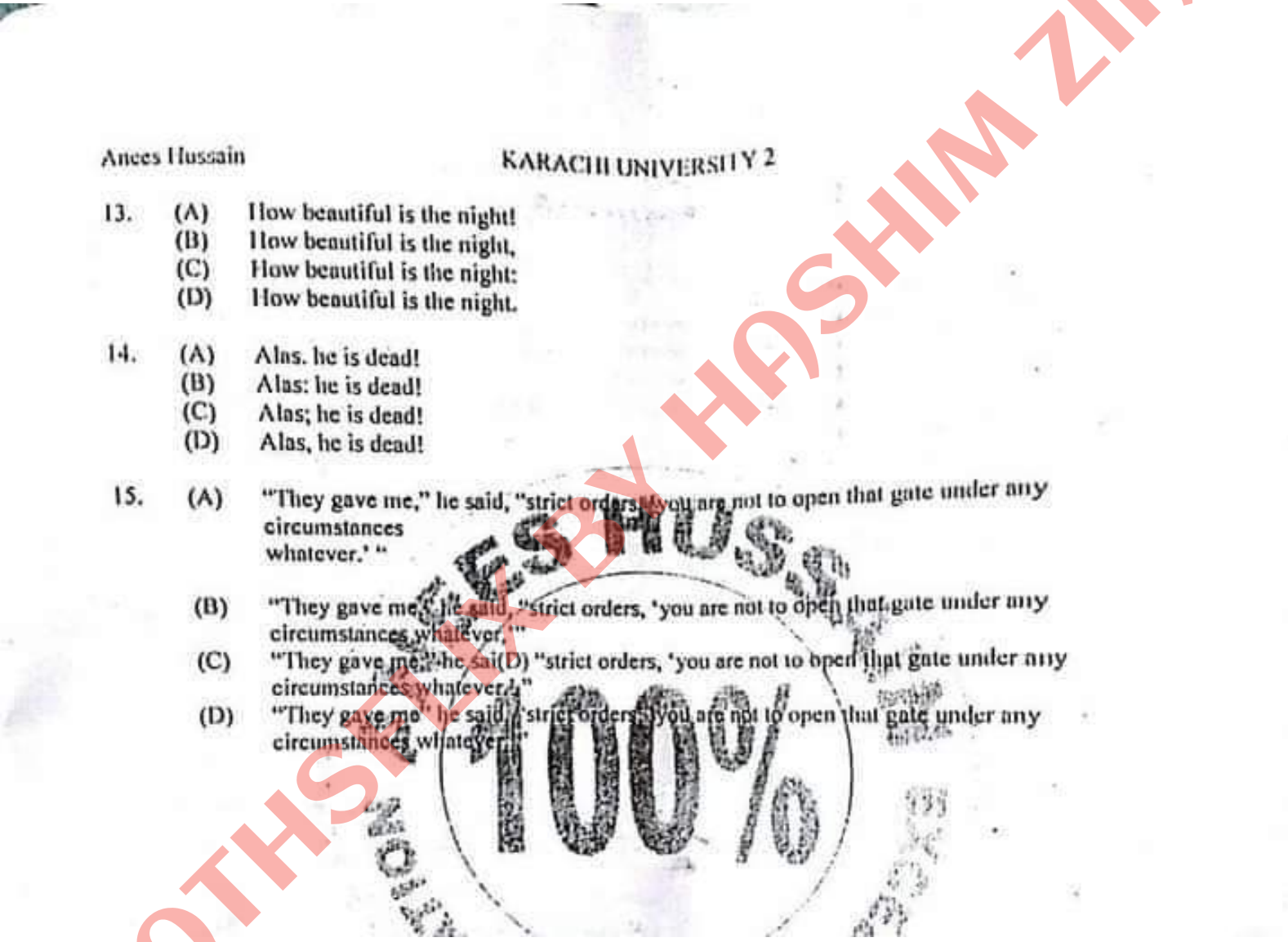

Anees Hussain KARACHI UNIVERSITY 2

13. (A) How beautiful is the night!
(B) How beautiful is the night,
(C) How beautiful is the night:
(D) How beautiful is the night.

14. (A) Alas. he is dead!
(B) Alas: he is dead!
(C) Alas; he is dead!
(D) Alas, he is dead!

15. (A) "They gave me," he said, "strict orders, 'you are not to open that gate under any circumstances whatever.' "
(B) "They gave me," he said, "strict orders, 'you are not to open that gate under any circumstances whatever,' "
(C) "They gave me," he sai(D) "strict orders, 'you are not to open that gate under any circumstances whatever.' "
(D) "They gave me" he said, "strict orders, 'you are not to open that gate under any circumstances whatever.' "

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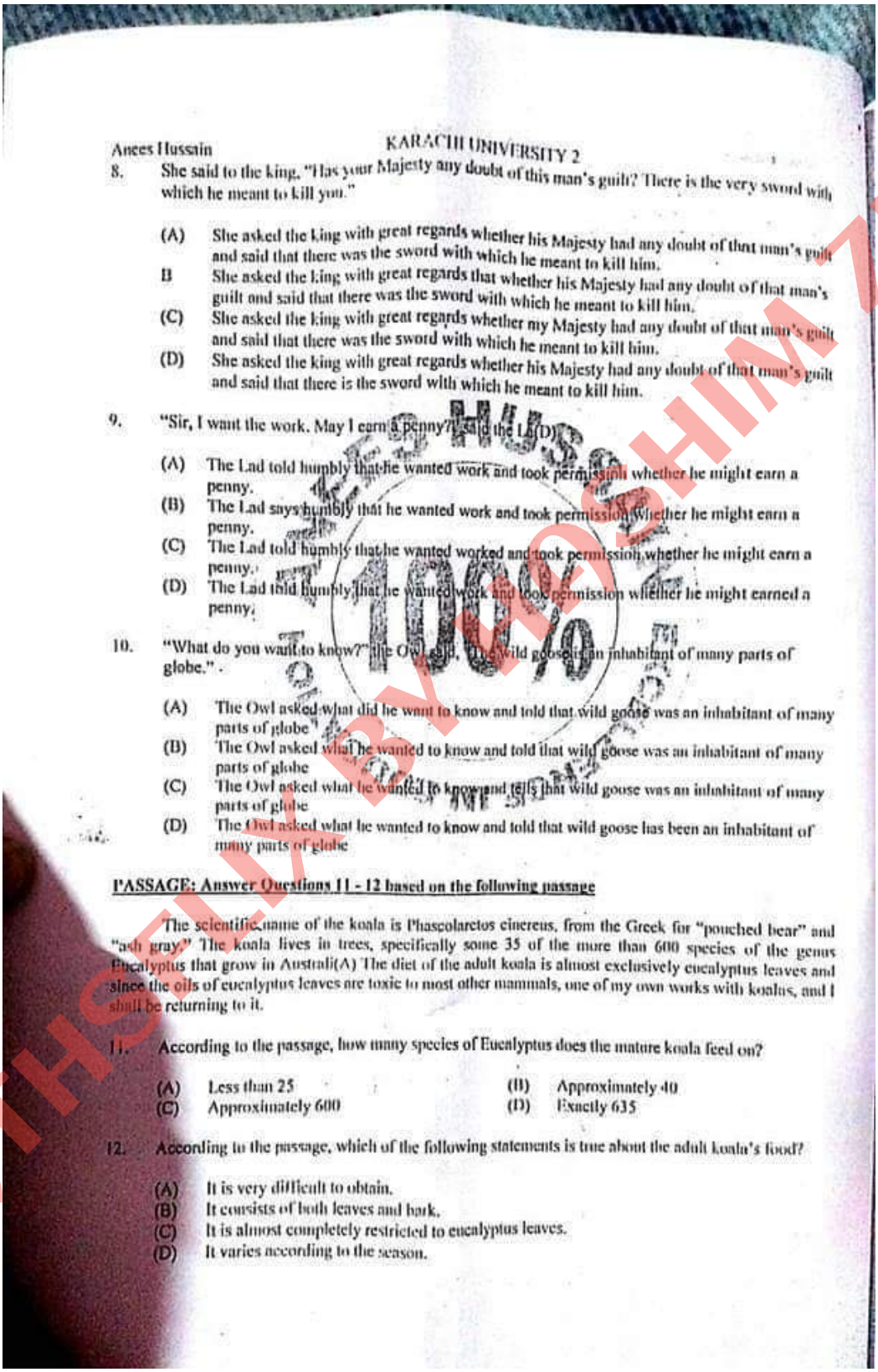

Anees Hussain KARACHI UNIVERSITY 2

8. She said to the king, "Has your Majesty any doubt of this man's guilt? There is the very sword with which he meant to kill you."

(A) She asked the King with great regards whether his Majesty had any doubt of that man's guilt and said that there was the sword with which he meant to kill him.
B She asked the king with great regards that whether his Majesty had any doubt of that man's guilt and said that there was the sword with which he meant to kill him.
(C) She asked the king with great regards whether my Majesty had any doubt of that man's guilt and said that there was the sword with which he meant to kill him.
(D) She asked the king with great regards whether his Majesty had any doubt of that man's guilt and said that there is the sword with which he meant to kill him.

9. "Sir, I want the work. May I earn a penny?" said the Lad.

(A) The Lad told humbly that he wanted work and took permission whether he might earn a penny.
(B) The Lad says humbly that he wanted work and took permission whether he might earn a penny.
(C) The Lad told humbly that he wanted worked and took permission whether he might earn a penny.
(D) The Lad told humbly that he wanted work and took permission whether he might earned a penny.

10. "What do you want to know?" the Owl said, "The wild goose is an inhabitant of many parts of globe."

(A) The Owl asked what did he want to know and told that wild goose was an inhabitant of many parts of globe
(B) The Owl asked what he wanted to know and told that wild goose was an inhabitant of many parts of globe
(C) The Owl asked what he wanted to know and tells that wild goose was an inhabitant of many parts of globe
(D) The Owl asked what he wanted to know and told that wild goose has been an inhabitant of many parts of globe

PASSAGE: Answer Questions 11 - 12 based on the following passage

The scientific name of the koala is Phascolarctos cinereus, from the Greek for "pouched bear" and "ash gray." The koala lives in trees, specifically some 35 of the more than 600 species of the genus Eucalyptus that grow in Australi(A) The diet of the adult koala is almost exclusively eucalyptus leaves and since the oils of eucalyptus leaves are toxic to most other mammals, one of my own works with koalas, and I shall be returning to it.

11. According to the passage, how many species of Eucalyptus does the mature koala feed on?

(A) Less than 25 (B) Approximately 40
(C) Approximately 600 (D) Exactly 635

12. According to the passage, which of the following statements is true about the adult koala's food?

(A) It is very difficult to obtain.
(B) It consists of both leaves and bark.
(C) It is almost completely restricted to eucalyptus leaves.
(D) It varies according to the season.

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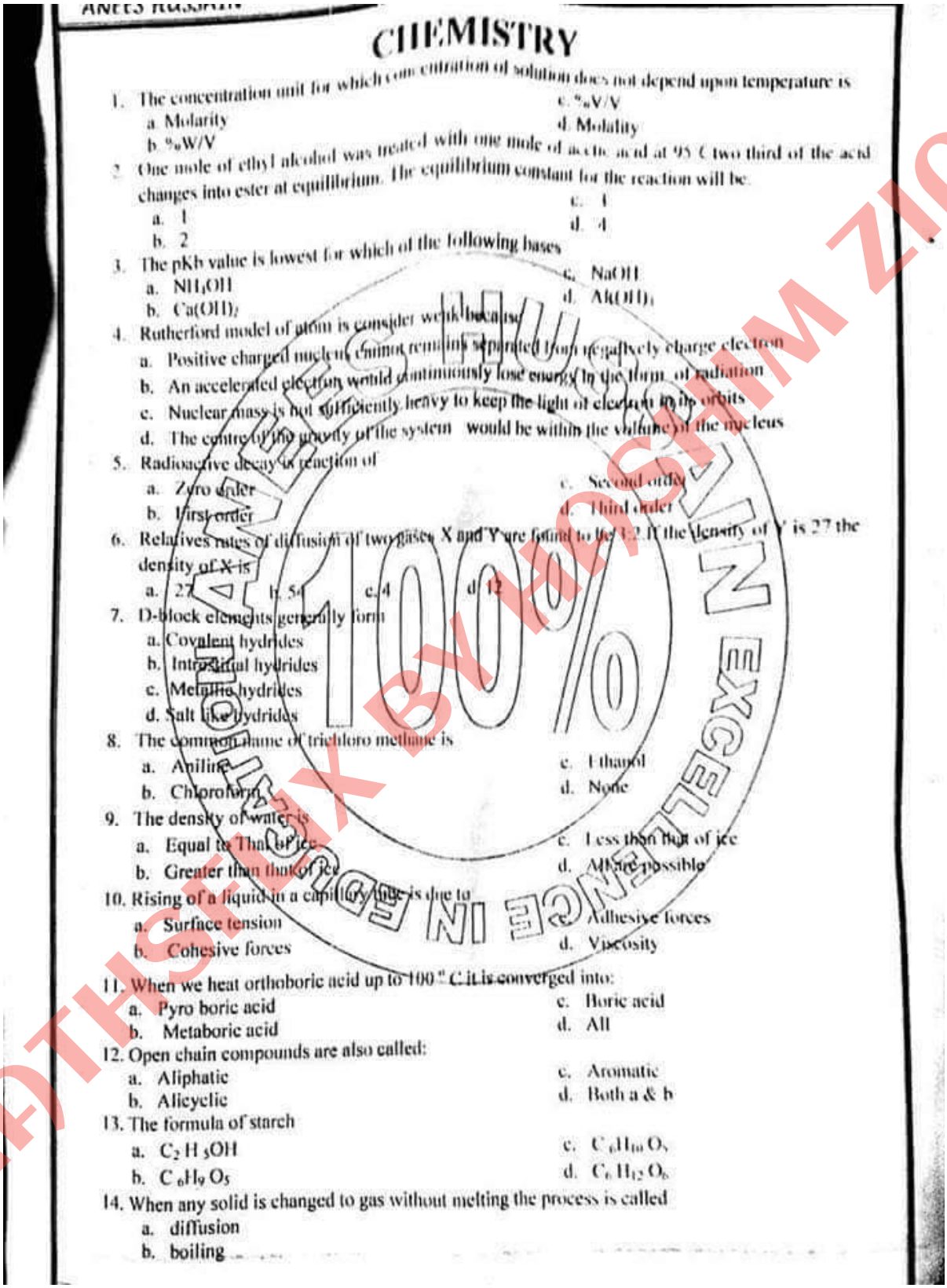

ANEES HUSSAIN

CHEMISTRY

1. The concentration unit for which concentration of solution does not depend upon temperature is
   a. Molarity
   b. %W/V
   c. %V/V
   d. Molality
2. One mole of ethyl alcohol was treated with one mole of acetic acid at 95 C two third of the acid changes into ester at equilibrium. The equilibrium constant for the reaction will be
   a. 1
   b. 2
   c. 3
   d. 4
3. The pKb value is lowest for which of the following bases
   a. NH_4OH
   b. $Ca(OH)_2$
   c. NaOH
   d. $Al(OH)_3$
4. Rutherford model of atom is consider weak because
   a. Positive charged nucleus cannot remain separated from negatively charge electron
   b. An accelerated electron would continuously lose energy in the form of radiation
   c. Nuclear mass is not sufficiently heavy to keep the light of electron in its orbits
   d. The centre of the gravity of the system would be within the volume of the nucleus
5. Radioactive decay is reaction of
   a. Zero order
   b. First order
   c. Second order
   d. Third order
6. Relatives rates of diffusion of two gases X and Y are found to be 4:2 if the density of Y is 27 the density of X is
   a. 27 b. 54 c. 4 d. 12
7. D-block elements generally form
   a. Covalent hydrides
   b. Interstitial hydrides
   c. Metallic hydrides
   d. Salt like hydrides
8. The common name of trichloro methane is
   a. Aniline
   b. Chloroform
   c. Ethanol
   d. None
9. The density of water is
   a. Equal to that of ice
   b. Greater than that of ice
   c. Less than that of ice
   d. All are possible
10. Rising of a liquid in a capillary tube is due to
    a. Surface tension
    b. Cohesive forces
    c. Adhesive forces
    d. Viscosity
11. When we heat orthoboric acid up to 100 °C it is converged into:
    a. Pyro boric acid
    b. Metaboric acid
    c. Boric acid
    d. All
12. Open chain compounds are also called:
    a. Aliphatic
    b. Alicyclic
    c. Aromatic
    d. Both a & b
13. The formula of starch
    a. C_2H_5OH
    b. $C_6H_9O_5$
    c. $C_6H_{10}O_5$
    d. $C_6H_{12}O_6$
14. When any solid is changed to gas without melting the process is called
    a. diffusion
    b. boiling

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b. ethyl chloride

16. Alkyl halides mostly undergo the
    a. Electrophilic Substitution reaction
    b. Electrophilic addition reactions
    c. Nucleophilic substitution reaction
    d. Nucleophilic addition reaction
17. The wood spirit is
    a. Formaldehyde
    b. Ethanol
    c. Methanol
    d. Phenol
18. Carbohydrates provide following amount of energy to the body
    a. 2-3 cal/g
    b. 7-8 cal/g
    c. 4-5 cal/g
    d. 9-10 cal/g
19. Elements of group IB are called
    a. Coinage metals
    b. Normal elements
    c. Race earths
    d. Transition elements
20. In Nitric acid the oxidation number of Nitrogen is:
    a. +1
    b. +3
    c. +5
    d. +7

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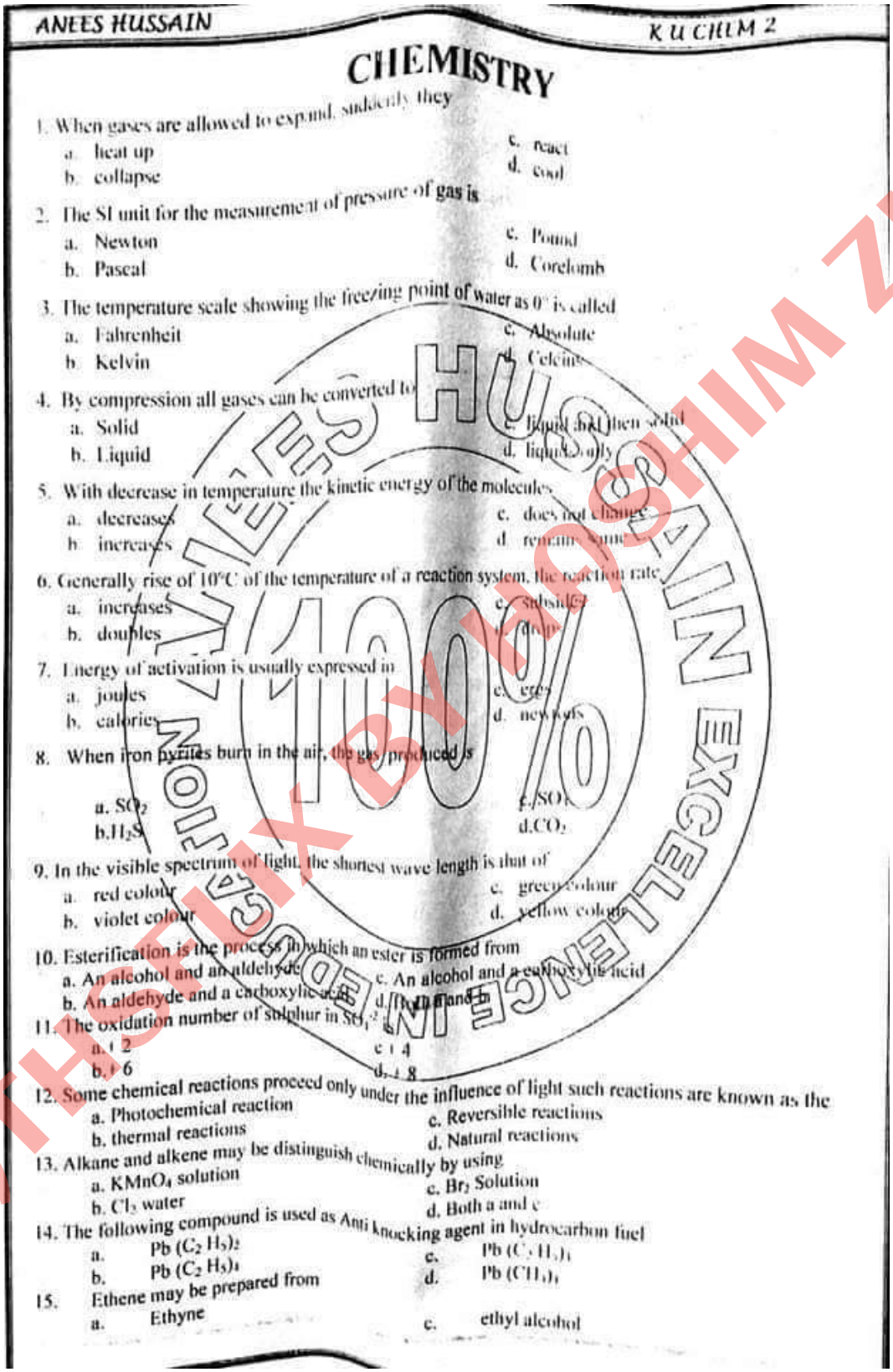

ANEES HUSSAIN KU CHEM 2

CHEMISTRY

1. When gases are allowed to expand, suddenly they
   a. heat up
   b. collapse
   c. react
   d. cool

2. The SI unit for the measurement of pressure of gas is
   a. Newton
   b. Pascal
   c. Pound
   d. Corelomb

3. The temperature scale showing the freezing point of water as 0° is called
   a. Fahrenheit
   b. Kelvin
   c. Absolute
   d. Celcius

4. By compression all gases can be converted to
   a. Solid
   b. Liquid
   c. liquid then solid
   d. liquid only

5. With decrease in temperature the kinetic energy of the molecules
   a. decreases
   b. increases
   c. does not change
   d. remain same

6. Generally rise of 10°C of the temperature of a reaction system, the reaction rate
   a. increases
   b. doubles
   c. subsided
   d. drops

7. Energy of activation is usually expressed in
   a. joules
   b. calories
   c. ergs
   d. newtons

8. When iron pyrites burn in the air, the gas produced is
   a. SO_2
   b. H_2S
   c. SO_3
   d. CO_2

9. In the visible spectrum of light, the shortest wave length is that of
   a. red colour
   b. violet colour
   c. green colour
   d. yellow colour

10. Esterification is the process in which an ester is formed from
    a. An alcohol and an aldehyde
    b. An aldehyde and a carboxylic acid
    c. An alcohol and a carboxylic acid
    d. Both a and b

11. The oxidation number of sulphur in SO_4^{-2} is
    a. + 2
    b. + 6
    c. + 4
    d. + 8

12. Some chemical reactions proceed only under the influence of light such reactions are known as the
    a. Photochemical reaction
    b. thermal reactions
    c. Reversible reactions
    d. Natural reactions

13. Alkane and alkene may be distinguish chemically by using
    a. $KMnO_4$ solution
    b. Cl_2 water
    c. Br_2 Solution
    d. Both a and c

14. The following compound is used as Anti knocking agent in hydrocarbon fuel
    a. $Pb(C_2H_5)_2$
    b. $Pb(C_2H_5)_4$
    c. $Pb(C_2H_5)_3$
    d. $Pb(CH_3)_4$

15. Ethene may be prepared from
    a. Ethyne
    c. ethyl alcohol

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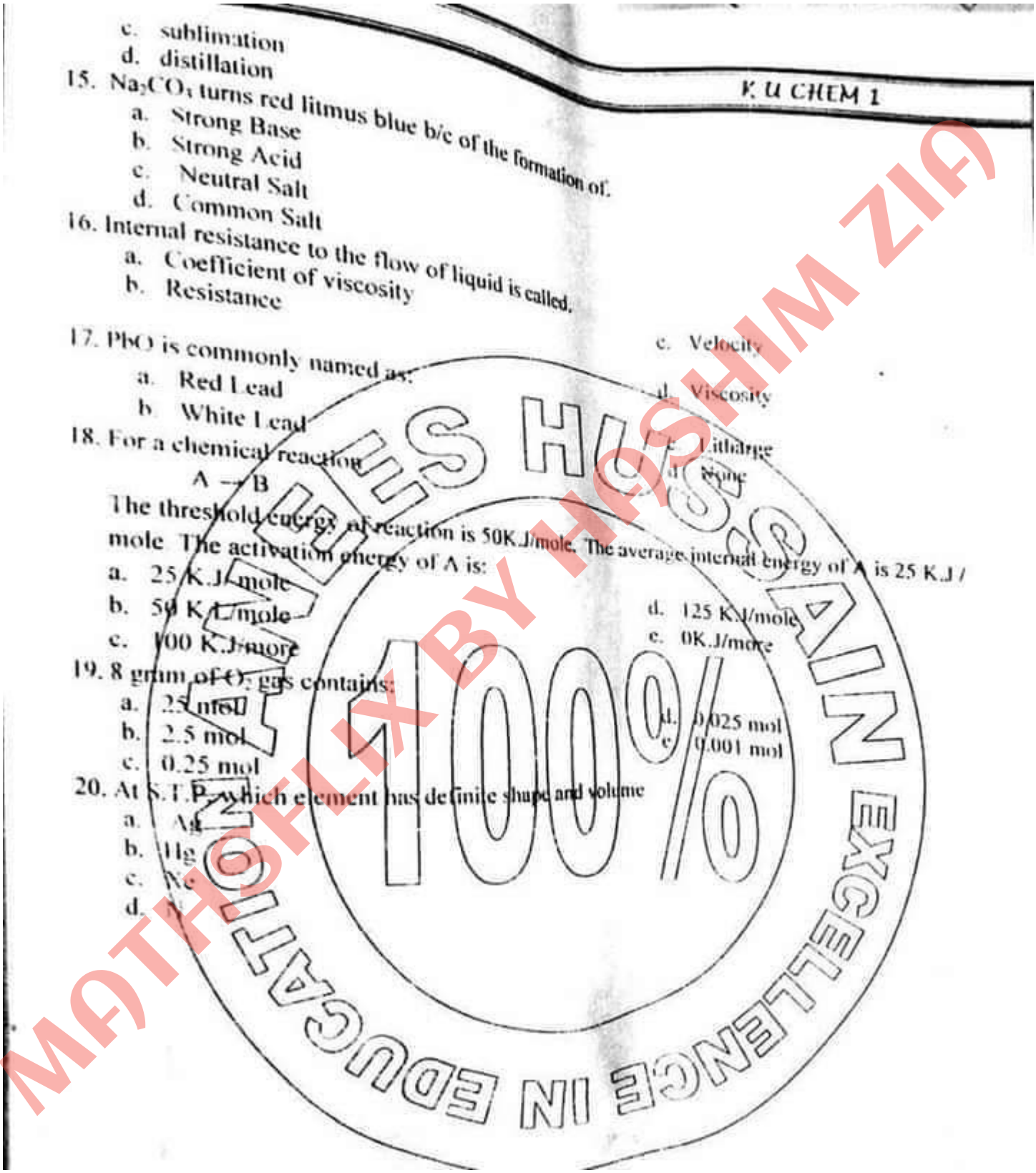

c. sublimation
d. distillation

15. Na_2CO_3 turns red litmus blue b/c of the formation of.
a. Strong Base
b. Strong Acid
c. Neutral Salt
d. Common Salt

16. Internal resistance to the flow of liquid is called.
a. Coefficient of viscosity
b. Resistance
c. Velocity
d. Viscosity

17. PbO is commonly named as:
a. Red Lead
b. White Lead
c. Litharge
d. None

18. For a chemical reaction
A → B
The threshold energy of reaction is 50K.J/mole. The average internal energy of A is 25 K.J / mole The activation energy of A is:
a. 25 K.J/mole
b. 50 K.J/mole
c. 100 K.J/more
d. 125 K.J/mole
e. 0K.J/more

19. 8 gram of O_2 gas contains:
a. 25 mol
b. 2.5 mol
c. 0.25 mol
d. 0.025 mol
e. 0.001 mol

20. At S.T.P. which element has definite shape and volume
a. Ag
b. Hg
c. Ne
d. N

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KARACHI UNIVERSITY PAST PAPERS SET 01
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A. convex Meniscus
B. Concave Meniscus
C. Straight Meniscus
D. Convex Meniscus at high

17. Metallic bonds are present in all _____.
A. Metals
B. Alloys
C. Ionic compounds
D. Both a and b

18. If the calculated value of ratio between concentrations of products and reactants is higher than then value of Kc at any moment then _____
A. Reaction will proceed in forward direction
B. Reaction will proceed in backward direction
C. Reaction will be at equilibrium stage
D. Both a and b

19. The electrode potential of hydrogen electrode is supposed to be
A. Unity
B. 10
C. 4
D. Zero

20. In following reaction the rate may be reduced to one forth by decreasing the concentration of one half

$$2CO + O_2 \longrightarrow 2CO_2$$

A. CO
B. O_2
C. CO_2
D. Both a and b

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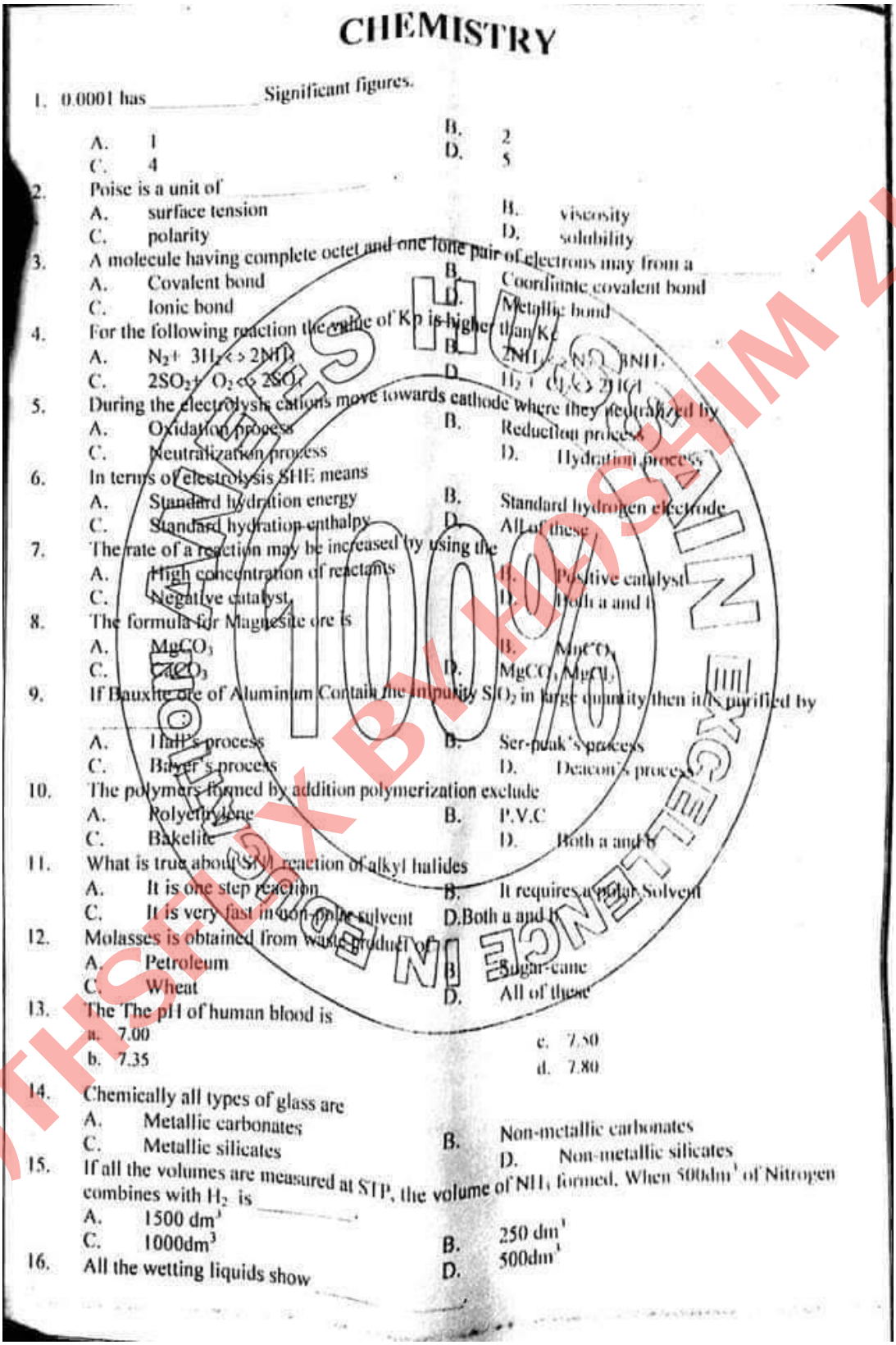

CHEMISTRY

1. 0.0001 has _____ Significant figures.
   A. 1 B. 2
   C. 4 D. 5
2. Poise is a unit of _____
   A. surface tension B. viscosity
   C. polarity D. solubility
3. A molecule having complete octet and one lone pair of electrons may from a _____
   A. Covalent bond B. Coordinate covalent bond
   C. Ionic bond D. Metallic bond
4. For the following reaction the value of Kp is higher than Kc
   A. $N_2 + 3H_2 <> 2NH_3$ B. $2NH_3 <> N_2 + 3NH_3$
   C. $2SO_2 + O_2 <> 2SO_3$ D. $H_2 + Cl_2 <> 2HCl$
5. During the electrolysis cations move towards cathode where they neutralized by
   A. Oxidation process B. Reduction process
   C. Neutralization process D. Hydration process
6. In terms of electrolysis SHE means
   A. Standard hydration energy B. Standard hydrogen electrode
   C. Standard hydration enthalpy D. All of these
7. The rate of a reaction may be increased by using the
   A. High concentration of reactants B. Positive catalyst
   C. Negative catalyst D. Both a and b
8. The formula for Magnesite ore is
   A. $MgCO_3$ B. $MnCO_3$
   C. $CaCO_3$ D. $MgCO_3, MgCl_2$
9. If Bauxite ore of Aluminum Contain the impurity SiO_2 in large quantity then it is purified by _____
   A. Hall's process B. Ser-peak's process
   C. Bayer's process D. Deacon's process
10. The polymers formed by addition polymerization exclude
    A. Polyethylene B. P.V.C
    C. Bakelite D. Both a and b
11. What is true about SN1 reaction of alkyl halides
    A. It is one step reaction B. It requires a polar Solvent
    C. It is very fast in non-polar solvent D. Both a and b
12. Molasses is obtained from waste product of
    A. Petroleum B. Sugar-cane
    C. Wheat D. All of these
13. The The pH of human blood is
    a. 7.00 c. 7.50
    b. 7.35 d. 7.80
14. Chemically all types of glass are
    A. Metallic carbonates B. Non-metallic carbonates
    C. Metallic silicates D. Non-metallic silicates
15. If all the volumes are measured at STP, the volume of NH_3 formed. When $500dm^3$ of Nitrogen combines with H_2 is _____
    A. $1500\ dm^3$ B. $250\ dm^3$
    C. $1000dm^3$ D. $500dm^3$
16. All the wetting liquids show _____

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CHEMISTRY 1	
1	A
2	D
3	C
4	B
5	A
6	D
7	B
8	B
9	B
10	A
11	B
12	A
13	C
14	C
15	A
16	D
17	C
18	A
19	C
20	A

CHEMISTRY 2	
1	D
2	B
3	D
4	C
5	A
6	B
7	A
8	A
9	B
10	C
11	B
12	A
13	D
14	B
15	D
16	C
17	C
18	C
19	A
20	C

CHEMISTRY 3	
1	A
2	B
3	B
4	B
5	B
6	B
7	D
8	A
9	B
10	D
11	B
12	B
13	B
14	C
15	A
16	B
17	D
18	18
19	D
20	A

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PHYSICS

KU answer key 1

1. A
2. D
3. C
4. C
5. B
6. C
7. B
8. D
9. C
10. C
11. D
12. A
13. D
14. D
15. B

KU ANSWER 2

1. C
2. B
3. C
4. D
5. B
6. D
7. B
8. D
9. A
10. A
11. D
12. C
13. C
14. B
15. B

KU ANSWER 3

1. B
2. B
3. D
4. B
5. D
6. D
7. E
8. A
9. B
10. B
11. C
12. E
13. D
14. D
15. B

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