

آزمون دکترا وزارت بهداشت سال ۱۴۰۱

فایل سوالات

Part one: Grammar

Directions: Complete the following sentences by choosing the best answer.

131- For safety purposes, the HSE experts requested that the staff the laboratory by Sunday.

- a) to evacuate
- b) be evacuated
- c) evacuated
- d) evacuate

132 She had her glasses..... by an optometrist.

- a) fitting
- b) fitted
- c) to fit
- d) fit

133- Having discovered the Covid-19 vaccine in a small laboratory,.....

- a) the scientists won an international prize for their discovery
- b) the scientists' discovery was awarded an international prize
- c) an international prize was awarded for scientists' discovery
- d) an international prize was awarded to the scientists

134. The verbal interaction between the nurse and the patient will constitute a solid relationship they can tackle the cultural misunderstandings.

- a) for that
- b) with which
- c) through whom
- d) of them

135. University students in bioinformatics may take compulsory courses including computational biology, genetics, and genomics.

- a) interested
- b) are interested
- c) to be interested
- d) having interested

136. Had one's date of death been unknown, the forensic medicine specialist the abbreviation 'dec.' (to denote "deceased").

- a) will use
- b) have used
- c) will be using
- d) would have used

137. It is essential that the representative of the research funding body the Ethics Committee to discuss the issue.

- a) attends
- b) attend
- c) attended
- d) attending

Part Two: Vocabulary

Directions: Complete the following sentences by choosing the best answer.

138. Despite the seriousness of the patient's injury, the surgeon to initiate the operation.

- a) hastened
- b) recommended
- c) declined
- d) hurried

139. Students in our class are quite successful as they do their best to recent achievements in their field.

- a) keep abreast of
- b) keep away from
- c) stay in the way of
- d) get stuck into

140. The manager's decision to..... a request for wage raise caused huge discomfort among the hospital staff.

- a) rehearse
- b) reignite
- c) reject
- d) reiterate

141. Researchers claim that, by adopting some good life habits, one can..... the progression of some acute diseases.

- a) consolidate
- b) intensify
- c) accelerate
- d) overturn

142 .The empirical evidence reveals that teenagers who do not spend quality time with their parents are more..... alcohol and drug abuse.

- a) prone to
- b) resistant to
- c) assisted by
- d) safeguarded by

143. Severe iron deficiency can cause developmental delay and growth

- a) retardation
- b) promotion
- c) acceleration
- d) achievement

144- Your..... an indecent life will certainly lead to adverse effects on your health conditions.

- a) denial of
- b) endorsement of
- c) discontent with
- d) abstinence from

145. The dwellers in this area asked the government to..... the laws that were in conflict with the residents' benefits.

- a) preserve
- b) abolish
- c) extend
- d) approve

Part Three. Reading Comprehension

Directions: Read the following passages carefully. Each passage is followed by some questions. Complete the questions with the most suitable words or phrases (a, b, c, or d). Base your answers on the information given in the passage only.

Passage 1

Two apparently contradictory admonitions are heard today. We are frequently warned that mechanization of data processing operation is not an automatic blessing, that there is no universal system suited to all hospitals. And that institutions frequently underestimate the cost and the time needed to convert the existing system to a mechanical basis. Just as often we are reminded that increasing demand for hospital services require electronic data processing (EDP) techniques. A study indicates that "an exploding population, longer life expectancy, greater utilization of hospitals, and the anticipated shortage of physicians are all factors which make it essential that medical personnel be freed as much as possible from the routine tasks of gathering and handling data." There are two views of the same picture. The personnel in charge of recoding medical cases in hospitals, concerned as they are with information handling, must be able to look both ways. Along with their administrators, they will be wise not only to "look before they leap" into automation, but also to remember that eventually they must take this big step in larger hospitals.

146. The author of the passage is the rapid conversion of hospitals to electronic data processing.

- a) indifferent to
- b) impartial about
- c) biased about
- d) critical of

147. it is understood from this passage that hospitals should.....

- a) cautiously adopt electronic data processing
- b) have already abandoned the mechanical systems
- c) keep the existing system unchanged
- d) cautiously adopt the universal systems

148. according to the passage , the automation of hospital data can help to

- a) expand life expectancy
- b) increase the number of hospital staff
- c) deal with population growth more successfully
- d) reduce the need for additional medical records personnel

149. the personnel responsible for medical records.....

- a) were the first to go for the automation system
- b) were strongly against the automation system
- c) should be armed with mechanical and automation skills
- d) would become redundant due to the automation system

150. The underlined pronoun “they” in the last sentence refer to..... .

- a) cases
- b) ways
- c) personnel
- d) administrators

passage two

Physical inactivity is a key risk factor for non-communicable diseases , and the fourth leading cause of early death globally . Physical inactivity has reached alarming levels in the Eastern Mediterranean Region, which has the second highest level of physically inactive populations among Who regions and the highest level for women. Recent estimates show that approximately 31% of the world’s population does not undertake the recommended amount of Physical activity to to protect their health. In the region, available data form 8 countries show levels of inactivity range from about 30% to as high as 70% . Of concern is that less than half of the countries of the region have systematic monitoring of levels of Physical activities in adults and children, and very few countries have commenced any comprehensive action aimed at increasing levels of activity , through sports , recreation, cycling , and walking . In 2011, the UN political Declaration on Prevention and Control of Non-communicable Diseases, agreed by all the member states, renewed the call on member states to take actions to reduce physical inactivity. Although the need to implement was one of the key issues in 2012, at the world health assembly in may 2013, it was endorsed by member states to reach the target of a 10% reduction in Physical inactivity by 2025. The “global recommendations on Physical activity for Health” address three age groups of 5-17 years old , 18-64 years old , and 65 years old and above, stressing that physical activity is fundamental in achieving energy balance and weight control. Physical activity reduces the risk of heart diseases by 30% , diabetes by 27% , and breast cancer by 21%- 25%.

151. Among WHO regions Eastern Mediterranean Region has the..... .

- a) alarming levels for non-communicable diseases
- b) Highest level of physically inactive populations
- c) highest level of inactive woman
- d) fourth level of early death

152- According to this passage,

- a) inactivity level is the same in all countries of the Eastern Mediterranean Region
- b) eight countries in the Eastern Mediterranean Region have inactive population
- c) inactivity of the world population is less than that of the Eastern Mediterranean Region
- d) over half of the world population do not observe the recommended amount of activity

153- The author uses “as high as” in the passage to in the region.

- a) underestimate the percentage of physical inactivity
- b) endorse plans developed for Physical activity
- c) emphasize the extent of physical inactivity
- d) praise the physical inactivity level

154- According to the passage, physical activity contributes to.....

- a) a considerable reduction in breast cancer
- b) the attainment of physical fitness
- c) weight gain in children under five
- d) age-group classification

155- According to this passage,

- a) many of the countries in the region have already taken actions to increase physical activity
- b) less than 50% of the countries in the region have observed physical activity thoroughly
- c) several countries in the region have facilitated activities such as cycling and walking
- d) a large number of the countries in the region closely monitor physical activity plans

Passage 3

Recurrent headaches characterized as migraine are among the most common disorders of the nervous system which can cause severe throbbing pain or a pulsing sensation. They are often accompanied by nausea, vomiting, and extreme sensitivity to light and sound .People who suffer from migraines can recognize that different triggers may get a headache started. Many migraine sufferers say hot weather and low barometric pressure can act as triggers. A study conducted in 2015 has attempted to compare weather conditions twenty four hours before hospital visits. for every increase of 5°C, the patients had a 7.4% a higher risk of migraine .

The study has also found that age, gender, and where a person has extra body fat may affect the risk of migraine. Whereas older people tend to suffer from migraine less frequently than the youth. Overweight people between the ages of twenty and thirty-five may have a higher risk. On average, those who were larger around the middle were more likely to have migraines than those of the same age with smaller waistlines

Neurologists believe they have identified a hypersensitive nerve system that prompts the pain; they are in the final stages of testing medicines that soothe its overly active cells, These are the first drugs ever specifically designed to prevent the crippling headaches before they start. If they deliver on the promise they have shown in studies conducted so far, millions of headaches may never happen

156- According to patients' reports, may provoke migraines.

- a) extra body fat b) larger waistlines
- c) nausea and vomiting d) increased temperature

157- As research indicates, the threats of migraine may decline

- a) as patients get older
- b) as people gain weight
- c) in proportion with body fat
- d) in younger sufferers

158- In this passage, migraine pain has NOT been Characterized as

- a) intense
- b) soothing
- c) persistent
- d) debilitating

159. According to the passage, some neurologists believe that initiate(s) migraine in patients.

- a) overactive nerve cells
- b) patients' social status
- c) mood change or fatigue
- d) sensitivity to drugs

160- As research goes on, migraine headaches are estimated to be

- a) relieved medically as they emerge
- b) controlled in better weather conditions
- c) prevented by medication in advance
- d) soothed if barometer pressure declines

Part One: Grammar

Directions: Complete the following sentences by choosing the best answer.

131 The surgeon asked the patient..... undergo the operation.

- a) if she would
- b) when would she
- c) that she would
- d) why would she

132 Before you obtain a driver's license, you need to get.....

- a) tested your eyes
- b) your eyes tested
- c) to test your eyes
- d) your eyes testing

133 Stressing the value of internship, to practice independently.

- a) medical students were given the chance
- b) the professor encouraged the medical students
- c) a chance was given to medical students
- d) medical students were required to

134. Since the past century, India has tripled its nursing schools, half..... have developed common curricula.

- a) at which
- b) at them.
- c) of which
- d) of them

135. Individuals..... every day lose considerable amount of their weight.

- a) exercising
- b) exercised
- c) had exercised
- d) would exercise

136. Had he helped the health workers yesterday, they..... some difficulty doing the vaccination on their own.

- a) will be having
- b) would not have had
- c) will have
- d) have

137. After the high rises in the living costs, the government urged that citizens..... calm.

- a) remain
- b) remaining
- c) to remain
- d) remained

Part Two: Vocabulary

Directions: Complete the following sentences by choosing the best answer.

138. Work..... can reduce the quality of your performance; you need to cope with your stress.

- a) gratification
- b) cherishment
- c) creation
- d) apprehension

139. He did not try to improve the quality of his project as he was about his work.

- a) reasonably interrogative
- b) appropriately critical
- c) unduly complacent
- d) clearly hesitant

140. The judge did not say anything directly, but..... indicated that the young man was guilty.

- a) implicitly b) bluntly
- c) plainly d) overtly

141- Unfair tax laws should be..... officially to achieve social justice.

- a) attained
- b) instigated
- c) terminated
- d) maintained.

142. When the antibodies produced by the immune system are unable to the invading pathogen, the disease is more likely to develop.

- a) invigorate
- b) suppress
- c) acquire
- d) introduce

143. Smart phones have become so today that you can hardly find someone who is not carrying one.

- a) scanty
- b) sporadic
- c) ubiquitous
- d) transient

144. Compared to non-invasively oriented medical specialists, surgeons usually have a stronger surgery as the main form of treatment.

- a) opposition against
- b) repulsion against
- c) implication toward
- d) inclination toward

145- Doctors and psychologists recommend people to release their emotions since..... one's feeling may cause both mental and physical problems.

- a) expressing
- b) enhancing
- c) assaying
- d) repressing

Part Three: Reading Comprehension

Directions: Read the following passages carefully. Each passage is followed by some questions. Complete the questions with the most suitable words or phrases (a, b, c, or d). Base your answers on the Information given in the passage only.

Passage 1

Artificial Neural Network (ANN) is a nonlinear prediction model that is learned by training, which has the advantages of accurate classification, self-learning, associative memory, and high speed searching for the optimal solution and good stability in data mining. ANN mainly consists of three parts: input layer, hidden layer, and output layer. The input layer is responsible for receiving external

information and data. The hidden layer is responsible for processing information and constantly adjusting the connection properties between neurons, such as weights and feedback, while the output layer is responsible for outputting the calculated results. ANN is different from traditional artificial intelligence (AI) and information processing technology, which overcomes the drawbacks of traditional artificial intelligence based on logical symbols in processing intuitive and unstructured information, and has the characteristics of self-adaption, self-organizing, and real-time learning. It can complete data classification, feature mining, and other mining tasks. Medical text data contain massive amounts of patient health records, vital signs, and other data., ANN can analyze the conditions of patients' rehabilitation, find the law of patient data, predict the patient's condition or rehabilitation, and help to discover medical knowledge. There are several ANN mining techniques that are used for medical text data, such as back-propagation and factorization machine-supported neural network (FNN).

146 . ANN seems to be a kind of

- a) traditional AI
- b) medical text data
- c) input layer model.
- d) data mining technique

147. Which of the following is NOT done by ANN?

- a) foreseeing the patient's rehabilitation
- b) helping the development of medical knowledge
- c) propagating unstructured information
- d) discovering the law of patient data,

148. It is inferred from the passage that ANN...

- a) works less efficiently than traditional artificial intelligence
- b) holds similar drawbacks to traditional artificial intelligence
- c) does not readily lend itself to medical data classification
- d) can contribute to the establishment of a prognosis

149. The hidden layer of the ANN is responsible for

- a) regulating inter-neuronal connection properties
- b) delivering external information and data
- c) outputting the calculated results
- d) obtaining patients' medical history

150. It is inferred from the passage that the traditional artificial intelligence.....

- a) does not have any drawbacks
- b) does not have a real-time learning feature
- c) logically processes intuitive information
- d) has the characteristics of self-adaption

Passage 2

Obesity is a medical condition in which excess body fat has accumulated to the extent that it may have an adverse effect on health, leading to reduced life expectancy and/or increased health problems. Obesity augments the likelihood of various diseases, particularly cardiac problems, certain types of cancer, and osteoarthritis. Obesity is most commonly caused by a combination of excessive dietary calories, lack of physical activity, and genetic susceptibility, although a few cases are caused primarily by genes or psychiatric illness. There is no solid evidence to support the view that some obese people eat little yet gain weight due to a slow metabolism. Obese people have a greater energy expenditure than their thin counterparts due to the energy required to maintain an increased body mass. The primary treatment for obesity is dieting and physical exercise. To supplement this, anti-obesity drugs may be taken to reduce appetite or inhibit fat absorption. Obesity is a leading preventable cause of death worldwide, with increasing prevalence in adults and children. Authorities view it as one of the most serious public health problems of the 21st century. It is stigmatized in much of the modern world (particularly in the Western world), though it was widely perceived as a symbol of wealth and fertility at other times in history, and still is in some parts of the world.

151. In addition to increasing the likelihood of some diseases, obesity may.....

- a) adversely affect people's longevity
- b) prevent public health-related problems
- c) primarily induce psychiatric illnesses.
- d) cause genetic susceptibility to osteoarthritis

152. All of the following factors can lead to obesity EXCEPT.....

- a) sedentary lifestyle
- b) genetic predisposition
- c) excessive food ingestion
- d) limited energy expenditure

153. The passage maintains that the concept that some people become fat despite little intake is

- a) confirmed by research findings of
- b) denied due to insufficient proof
- c) suggested by the nutritionists
- d) documented by evidence

154 According to the passage,.....

- a) obesity can cause cancerous conditions
- b) obesity is attributable to slow metabolism
- c) supplementary medications are the primary obesity treatment
- d) obese people consume less energy compared to their slim counterparts

155. It is concluded that obesity is a condition which is, as opposed to earlier times.

- a) widely a sign of prosperity and fertility now
- b) praised by many in most Western countries
- c) disapproved by most modern people
- d) the most complicated health problem

Passage 3

Vaccination against life-threatening diseases is one of the greatest public health achievements in history. While vaccination carries unavoidable risks, the medical, social and economic benefits they confer have led all fifty US states to enact compulsory childhood vaccination laws. However, anti-vaccination sentiment is growing fast in the US in large part due to the controversial and hotly disputed link between immunizations and autism. The Internet worsens fears regarding vaccination safety, as at least a dozen websites publish alarming information about the risks of vaccines. Increasing numbers of parents are opting out of immunizations for their children and seeking legally sanctioned exemptions instead. A variety of factors are at play: religious and philosophical beliefs, freedom and individualism, misinformation about risk, and over-perception of risk. State legislatures and health departments now face a difficult challenge: respecting individual rights and freedoms while also safeguarding the public welfare. In some areas, one out of five children has not received their recommended vaccines. The consequences are serious; "herd immunity" is threatened as more and more parents discard the community's decreased immunity, outbreaks of diseases thought to have been conquered have already occurred, costs are being externalized onto the healthcare and legal systems, and vulnerable populations may suffer harm or even death.

156. According to the text, vaccination.....

- a) has been safeguarded against misinformation
- b) marginalizes economic accomplishments
- c) has been voluntarily enforced in the US
- d) is inevitably accompanied with risks

157. The text above maintains that a growing number of families are asking for.....

- a) compulsory vaccination of children
- b) the exemption of vaccination for their children
- c) the inclusion of autistic children for vaccination
- d) the sanction of children vaccination web-sites

158. All of the following issues are responsible for the attitude against vaccination EXCEPT

- a) preserving social welfare
- b) respecting individual freedom
- c) being exposed to wrong information
- d) overestimating the vaccination risks

159. The author of the above passage.....

- a) supports parents opting out vaccination
- b) is worried about vaccination exemption
- c) challenges the state legislatures for restrictions on vaccination
- d) advocates the relationship between autism and vaccination

160. As a result of parents' refusal of children vaccination,.....

- a) one out of five children received vaccination
- b) 50 states enacted laws against the outbreak of diseases
- c) expenditure is imposed on healthcare systems
- d) outbreaks of diseases have been conquered

نوبت سوم

Part One: Grammar

Directions: Complete the following sentences by choosing the best answer.

131. It is absolutely crucial that the treatment team..... for the laboratory test results before the diagnosis is ultimately confirmed.

- a) are waiting
- b) be waiting
- c) is wanting
- d) waits

132. The surgeon..... before the commencement of operation.

- a) had the patient anesthetized
- b) has the patient been anesthetized
- c) had the patient be anesthetized
- d) has the patient to anesthetize

133- Making discoveries about new creatures,

- a) this is a really interesting time to be a biologist
- b) the biologist recorded the details of her observations
- c) the details of the biologist's observations are recorded
- d) the observations of the biologist become evidently relevant

134. For students of medical pathology, it is really worth exploring the wide array of pathogens, most belong to distinct categories.

- a) of whom
- b) of those
- c) of which
- d) of them

135. Cultural habits are certain behaviors by the communities and are passed along to succeeding generations.

- a) adopted
- b) be adopted
- c) having adopted
- d) have been adopted

136. Had a rural school child failed to excel in traditional classes, his/her parents..... to send him to work.

- a) would be convincing
- b) would have convinced
- c) would have been convinced
- d) would convince

137. The consultant asked the nurse..... been discharged.

- a) if the patient had
- b) why had the patient
- c) that the patient had
- d) why had the patient

Part Two: Vocabulary

Directions: Complete the following sentences by choosing the best answer.

138 .The physiologist managed to everyone's interest, with full attention to the topic, up to the end of his speech.

- a) hinder
- b) inhibit
- c) repel
- d) sustain

139. The manager's suggestion was openly..... by the team members for being inappropriate.

- a) repudiated
- b) seduced
- c) esteemed
- d) commended

140. The theory, being too old-fashioned, was by more recent research as scientifically expected.

- a) protracted
- b) appreciated
- c) superseded
- d) acknowledged

141.The collapse of the pharmaceutical company will have..... for the whole industry, leading to severe drug shortages nationwide.

- a) repercussions
- b) reproductions
- c) reimbursements
- d) repayments

142. The rapid economic..... in that country after a long recession and inflation has encouraged foreign investments.

- a) suppression
- b) retention
- c) revival
- d) denial

143. Her confidence has been by repeat failures. She is now on drugs to boost her self-confidence.

- a) invigorated
- b) proliferated
- c) aroused
- d) eroded

144 The representative the attendants' questions since he did not intend to openly discuss them.

- a) sidestepped
- b) presented
- c) approved
- d) endorsed

145. Hormones, without which the body cannot function properly, play a role in well functioning of the body.

- a) trivial
- b) critical
- c) subsidiary
- d) marginal

Part Three. Reading Comprehension

Directions: Read the following passages carefully. Each passage is followed by some questions. Complete the questions with the most suitable words or phrases (a, b, c, or d). Base your answers on the information given in the passage only.

Passage 1

Adverse events related to unsafe care represent one of the top ten causes of death and disability worldwide, and a third to a half appear preventable. Investments in reducing harm can lead to substantial savings, and more importantly improve patient outcomes. Twenty years after the Institute of Medicine's "To Err Is Human" report, problems with safety remain all too common despite patient-centered strategies to create a culture of safety, for example implementation of inpatient checklists and computerization of prescribing and bar-coding. However, safety issues outside the hospital have received much less attention than hospital safety, yet care is increasingly being shifted outside the hospital. The application of artificial intelligence (AI) has tremendous potential as a tool for improving safety, both inside and outside of the hospital, by providing solutions to predict harms, collect a variety of data including both new and already-available data, and as part of quality improvement initiatives. For instance, AI can provide decision support by identifying patients at high risk of hospital harm to guide prevention and early intervention strategies. Similarly, AI can be applied in outpatient, community, and home settings. When coupled with digital approaches, these technologies can improve communication between patients and

healthcare providers to reduce the frequency of preventable arms. While existing data will be helpful, new data will be available through technologies like sensors which should improve predictions. AI techniques, such as machine learning, can be leveraged to provide clinical risk prediction to improve patient safety.

146 According to the passage,.....

- a) adverse events constitute the highest number of deaths worldwide
- b) investment on developing safe procedures improves patient outcomes
- c) investment on safety procedures has led to substantial savings in the past 20 years
- d) improving patient outcomes reduces investment on unsafe care procedures

147- Although some strategies are employed to assure patient safety,.....

- a) the implementation of inpatient checklists is a common mistake
- b) care issues outside the hospitals have received more attention so far
- c) there are still some problems endangering people's lives
- d) the Institute of Medicine has published wrong reports

148- Artificial intelligence can lead to patient safety.....

- a) given that it is replaced by a decision support system
- b) if people seek healthcare services outside the hospital
- c) due to the potential of healthcare initiatives
- d) via data collection and prediction of problems

149. Artificial intelligence enhances patient-doctor relationships.....

- a) by identifying high risk patients
- b) if used along with digital approaches
- c) when coupled with home safety checklists
- d) given that interventional strategies are employed

150. Machine learning techniques

- a) can increase patient safety by predicting clinical risks
- b) improve data accessibility through risk prediction
- c) can leverage clinical risks through existing data
- d) have sensors and make new data available

Passage 2

Drug addiction is a brain disorder involving a compulsive use of drugs in spite of its detrimental consequences. Biologically, although drug use leads to unfavorable results, the drug addict's brain functions to reward drug-taking. In addition to that, at the psychological level, the drug addict becomes enslaved and loses control over the addictive behavior. Biologically, the normal function and chemistry of our brain encourage the individual to repeat behaviors that are enjoyable such as sleeping and eating. Sadly, although the repetition of pleasurable activities may ensure our species survival, it may also have detrimental consequences by making the individual defenseless against addiction. Psychologically, drug addicts cling to the addictive behavior despite its harmful effects because they anticipate some benefit from it. Examples of these benefits include relief from stress or boredom and escaping from a difficult situation. To the question "can addiction be treated?" the answer is "yes". But like all chronic diseases, quitting a drug for a few weeks does not mean that the drug addict has been cured. Drug addicts need a long time to completely recover and regain control of their lives. The first step in drug addiction treatment is detoxification. Medication can help drug addicts in the treatment process by alleviating the withdrawal symptoms. It should be noted though that the detoxification step is not enough. The patient must receive further treatment, otherwise, he will probably relapse.

151- Drug addiction is defined as a mental disorder in which the individual.....

- a) habitually consumes psychosomatically destructive drugs
- b) consciously alleviates drug toxicity by medication
- c) occasionally clings to the addictive behavior
- d) defenselessly denies drug-taking behavior

152 Physically, an addict's brain functions..... drug taking despite its negative effects on his health.

- a) independent of
- b) contrary to
- c) in favor of
- d) irrespective of

153. It is stated in the passage that the adverse effects of using drugs include all of the following EXCEPT

- a) being bound to addictive behavior
- b) noticing the health harms of addiction
- c) having a false conception of permanent stress relief
- d) being preoccupied by false pleasurable activities

154. The reason that makes addicts adhere to drugs is that.....

- a) their brain chemistry refrains from abnormal behavior
- b) they are enslaved by medications used for quitting drugs
- c) they think it prohibits chronic disease development
- d) they think drugs are beneficial for difficult situations

155. What is the writer's standpoint towards the treatment of addiction?

- a) Addiction can be essentially treated after several weeks of medication.
- b) An addict cannot be cured thoroughly and will return to addiction.
- c) Detoxification process suffices for the addict's treatment procedure.
- d) Addiction treatment is considered as a feasible but long-term procedure.

Passage 3

The water, sanitation, and hygiene (WASH) sector has struggled to achieve at-scale and sustained improvements in its services, particularly for the world's most vulnerable populations. Inconsistent, non-functional water supply and underused deteriorating toilets undermine significant progress toward achieving universal access to safe water and sanitation. The United Nations (UN) estimates that at least 29% of the global population relies on some level of fecal or chemically contaminated or unimproved water source for drinking. Two billion people do not use sanitation facilities coupled with safe excreta disposal and treatment services, also. 3 billion people lack handwashing facilities with available soap and water. Despite the strong biological plausibility that improving WASH conditions is a basic strategy for yielding gains in health, several rigorous, high-profile field trials reveal minimal or no reductions in childhood diarrheal disease or undernutrition from WASH interventions typically delivered to rural populations in low- and middle-income countries (LMICs). The evidence for health impact from WASH service delivery in urban areas in LMICs is also limited. The failure to sustain services and reliably quantify health gains in the sector is perhaps rooted the complexity of innovation and implementation strategy requirements, limited external validity, diverse objectives, and the multiple service providers and multilevel nature of WASH interventions.

156. The water, sanitation, and hygiene (WASH) sector has

- a) tried to overlook vulnerable populations' health
- b) aimed to limit health services to world's rich populations
- c) made great efforts to reach a stable progress in providing services
- d) succeeded in attaining continual improvement in its services

157. The achievement of safe water and hygiene is hampered by the.....

- a) unpredictable water supply and worsening situation of toilets
- b) universal access to non-functional underground water supplies
- c) lack of underused toilets and inconsistent water supply
- d) consistent service delivery in urban areas in LMICs

158. According to the UN, over one quarter of the people worldwide.....

- a) are in short of contaminated water supply
- b) are deprived of sanitary, clean drinking water
- c) avoid unimproved water sources for drinking
- d) use chemicals to contaminate water sources

159. Despite improvements in WASH.....

- a) sufficient clean water is provided to most countries
- b) children in LMICs still develop gastrointestinal disorders
- c) undernourishment has been controlled in LMIC's
- d) there are high-profile field trials against it

160 Which of the following has a role in the failure of WASH interventions?

- a) Unity of its objectives in countries
- b) Inadequate number of service providers
- e) Unsophisticated health initiatives
- d) The prerequisites for executing its strategies