Which one is not true about PRECEDE – PROCEED model of health education?

a. Works in a continuous cycle

b. It is based on community participation

c. It is a planning framework

d. It is behavioral change model ✓

The correct answer is: It is behavioral change model

Which one is the advantage of intent to treat analysis over efficacy analysis

a. It preserves the benefit of randomization

b. It maintains the statical power of the original study population

c. Ensures unbiased study result

d. All ✓

The correct answer is: All

Which one is the correct order from lowest to highest level next to population within the concept of ecology?

- a. Community-Ecosystem-Biome-Biosphere ✓
- b. Biosphere-Biome-Ecosystem-Community
- c. Community-Ecosystem-Biosphere-Biome
- d. Community-Biome-Ecosystem-Biosphere

The correct answer is: Community-Ecosystem-Biome-Biosphere

Which one is the least effective methods of controlling occupational hazards?

- a. Wearing mask/Muffle
- b. Engineering control
- c. Elimination
- d. Substitution ✗

The correct answer is: Wearing mask/Muffle

Which one is the most potent greenhouse gas, contributing for global warming?

- a. Sulfur dioxide
- b. Carbon dioxide
- c. Nitrogen dioxide ✗
- d. Methane

The correct answer is: Methane

Which one of epidemiological variable will be used to describe the occurrence of epidemic using epidemic curve

- a. Place
- b. Person
- c. Time ✓
- d. None

The correct answer is: Time

Which one of the following anthropometric measurement is used for assessing fat free mass of body composition?

- a. Body mass index ✗
- b. Mid-upper-arm-circumference
- c. Skin-fold thickness
- d. Waist to hip ratio

The correct answer is: Mid-upper-arm-circumference

Which one of the following interpretations of OR is falsely matched?

a. OR > 1 implies exposure is a risk factor

b. OR < 1 implies exposure is preventive

c. OR = 1 is a null value at which exposure is more prevalent compared to the outcome ✓

d. OR = 1 implies absence of relationship between exposure and outcome

The correct answer is: OR = 1 is a null value at which exposure is more prevalent compared to the outcome

Which one of the following is not part of the affective domain of behavior?

a. Attitude

b. Perception

c. Self-confidence ✗

d. Value

The correct answer is: Perception

Which one of the following is not true about mass media communication?

a. It is very important to make the health information to be reachable for many people.

b. It is mainly a two-sided communication. ✓

c. One of its weaknesses is that it does not differentiate the target group.

d. It may create anxiety when contradictory messages are transmitted.

The correct answer is: It is mainly a two-sided communication.

Which one of the following is the concern of Autecology?

a. A single fish in a swimming pool.

b. A population of elephant in “West Harerge” Zone.

c. A group of birds flying over “Tossa” mountain. ✗

d. A group of mosquito fly targeted for elimination in “Raya Kobo” district.

The correct answer is: A single fish in a swimming pool.

Which one of the following is the correct order of large-scale water treatment?

a. Pre-chlorination-Aeration-Coagulation-Flocculation-Sedimentation-Filtration-Post-chlorination

b. Pre-chlorination-Aeration-Flocculation-Coagulation-Sedimentation-Filtration-Post-chlorination ✗

c. Pre-chlorination-Aeration-Flocculation-Coagulation-Filtration-Sedimentation-Post-chlorination

d. Aeration-Pre-chlorination-Coagulation-Flocculation-Sedimentation-Filtration-Post-chlorination

e. Aeration-Pre-chlorination-Flocculation-Coagulation-Sedimentation-Filtration-Post-chlorination

The correct answer is: Pre-chlorination-Aeration-Coagulation-Flocculation-Sedimentation-Filtration-Post-chlorination

Which one of the following stages of plasmodium species is infective for the mosquito fly?

- a. Merozoite
- b. Gametocyte
- c. Sporozoite ✕
- d. Ookinete

The correct answer is: Gametocyte

Which one of the following vectors are larviparous?

- a. Tsetse fly
- b. Sandfly ✗
- c. Black fly
- d. Mosquito fly

The correct answer is: Tsetse fly

Which type of economic evaluation compares both costs and health outcomes measured in natural units?

- a. Cost Benefit Analysis ✗
- b. Cost Utility Analysis
- c. Cost Effectiveness Analysis
- d. Cost Minimization Analysis

The correct answer is: Cost Effectiveness Analysis

“Goal Ethiopia” was a project in Woldia town. But now the project has been terminated because it accomplished its objectives. If the program manager wants to evaluate the whole process of the project after 2 weeks of termination, what type of evaluation should use?

a. Ex-ante evaluation

b. Summative Evaluation

c. Ex-post Evaluation ✓

d. Formative Evaluation

The correct answer is: Ex-post Evaluation

“Woldia Comprehensive and Specialized Hospital (WCSH) Inspires to be one of the top Five East African Health Institutions by 2030”. Which of the following alternatives best describes this statement?

- a. Vision of WCSH ✓
- b. Mission of WCSH
- c. Goal of WCSH
- d. Purpose of WCSH

The correct answer is: Vision of WCSH

In hypothesis testing, the level of significance is the probability of

a. Failing to reject a true null hypothesis

b. Failing to reject a false null hypothesis

c. Rejecting a false null hypothesis

d. Rejecting a true null hypothesis. ✓

The correct answer is: Rejecting a true null hypothesis.

In solid waste management, using an item more than once without altering its physical composition is termed as:

- a. Reuse ✓
- b. Recovery
- c. Recycling
- d. Reduction

The correct answer is: Reuse

In which of the following case, the death of woman should be reported as pregnancy related death only?

a. Pregnant women death caused by complications of Diabetes mellitus

b. A two week postpartum women death caused by complications of gestational hypertension

c. A two week postpartum women death caused by complications of Postpartum hemorrhage ✓

d. A 37 weeks gestational age women death caused by food poisoning

The correct answer is: A two week postpartum women death caused by complications of Postpartum hemorrhage

In which study design is subjects sampled based on their outcome status

a. Cross sectional

b. Case control ✓

c. Experimental

d. Cohort

The correct answer is: Case control

Is ability of a test to come up with similar value upon repeated measurement in similar occasions

a. validity

b. reliability ✓

c. predictive value positive

d. specificity

The correct answer is: reliability

Many professional schools require applicants to take a standardized test. Suppose that 1000 students write the test, and you find that your mark of 63 (out of 100) was the 73rd percentile. This means:

- a. At least 73% of the people got 63 or better. ✗
- b. At least 270 people got 73 or better.
- c. At least 270 people got 63 or better.
- d. At least 27% of the people got 73 or worse.
- e. At least 730 people got 73 or better

The correct answer is: At least 270 people got 63 or better.

Mr. Tigabu has been expressing his desire to quit smoking. His workplace provides smoking cessation support programs, access to counseling services, and nicotine replacement therapy. In this context, what type of factor is represented by the resources and services provided Mr. Tigabu's workplace?

a. Predisposing

b. Enabling ✓

c. Reinforcing

d. Mediating

The correct answer is: Enabling

Mr. X was ordered to immunize children at the EPI room by the health facility manager but was also assigned to supervise the ongoing measles vaccination campaign in the nearby school by the campaign facilitating committees. He got confused what to do that day and stayed in the facility to immunize the children. The vaccination campaign at the school was interrupted after an hour due to shortage of vaccines at the site. What could have avoided this problem?

a. Unity of direction

b. Chain of command

c. Unity of command ✓

d. Span of control

The correct answer is: Unity of command

Mss. Ayelech is a 32 years old lactating women with history of a specific nutrient deficiency starting from delivery of her 3 months old child. She is exclusively breastfeeding her child, but her child is now at risk of deficiency for a nutrient similar to the mother. Which nutrient will be the most likely deficient?

- a. Calcium ✗
- b. Iodine
- c. Zinc
- d. Iron

The correct answer is: Iodine

One of the following can be considered as selection bias except

a. Voluntary bias

b. Non-response bias

c. Loss to follow up bias

d. Social desirability bias ✓

The correct answer is: Social desirability bias

One of the following diseases is grouped under water washed disease. Which one?

a. Amoebiasis

b. Trachoma ✓

c. Trypanosomiasis

d. Shigellosis

The correct answer is: Trachoma

One of the following is NOT NECESSARILY TRUE about properties of probability

a. In independent event the probability of one factor is not affected by the state of another factor

b. If two events are not disjoint, the probability that one or the other will occur equals the sum of the probabilities ✓

c. The probability of the collection of all possible outcomes is equal to 1

d. Probability assigned must be a real number between 0 &1

The correct answer is: If two events are not disjoint, the probability that one or the other will occur equals the sum of the probabilities

One of the following is true in a sense of the Health Belief Model (HBM).

a. Perceived threat = Perceived Susceptibility + Perceived Severity

b. Perceived threat = Perceived Susceptibility - Perceived Severity

c. Outcome Expectation = Perceived Benefit + Perceived Barrier ✗

d. Outcome Expectation = Perceived Benefit - Perceived Severity

The correct answer is: Perceived threat = Perceived Susceptibility + Perceived Severity

Outreach service and campaigns are examples of which function of public health?

- a. Assessment
- b. Policy development ✕
- c. Assurance
- d. Curative

The correct answer is: Assurance

Select the one that indicates severe acute malnutrition

a. Weight for age Z-score < -2

b. Wight for height Z-score between -2 and -3

c. Height-for-age Z-score < -3

d. Weight for height Z-score < -3 ✓

The correct answer is: Weight for height Z-score < -3

Semira feels anxious and uncertain about trying a new form of exercise due to her fear of injury or failure. Overcoming her emotional barriers and building confidence to engage in the new activity aligns with which domain of behavior?

a. Cognitive

b. Affective ✓

c. Psychomotor

d. Environmental

The correct answer is: Affective

Suppose a 29-year-old woman on a single contraceptive method for the last nine months and not currently in menstruation but had a history of unprotected sexual intercourse comes to you after one week of missing her appointment date. Which of the following is TRUE regarding the case?

a. She must be referred for the pregnancy test to take Depo-Provera if she was on it with provision of backup methods

b. She can take Depo-Provera by her choice without a pregnancy test if she was on it and no health problems restricting its use ✓

c. She should be appointed to return while on menses if she were on Depo-Provera with the provision of backup methods.

d. Providing COC will be appropriate if she were on Depo-Provera until the return of her menses and then providing her method of choice

The correct answer is: She can take Depo-Provera by her choice without a pregnancy test if she was on it and no health problems restricting its use

Suppose Dr. Mulumba (with darker skin pigmentation) and Dr. Stefan (with lighter skin pigmentation) visit the Danakil Depression in Afar Regional State. Which of the following statements is ecologically accurate regarding their exposure to solar radiation?

a. Dr. Mulumba will be more affected by radiation than Dr. Stefan. ✗

b. Dr. Stefan will be more affected by radiation than Dr. Mulumba.

c. Both Dr. Mulumba and Dr. Stefan will be affected by radiation equally.

d. Dr. Mulumba will be more affected by frostbite than Dr. Stefan.

The correct answer is: Dr. Stefan will be more affected by radiation than Dr. Mulumba.

Suppose x can take on any valve of 1, 2, 3 &4. If p (1) = 0.002, p (2) = 0.1021 &p (3) =0.8801, then P (4) is equal to

- a. 0.0158 ✓
- b. 0.1058
- c. 0.0237
- d. 0.0957
- e. 0.158

The correct answer is: 0.0158

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Question 42

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The feature of public health that works on fairness in the distribution of benefits and burdens is called _____.

a. Social justice ✓
b. Un common culture
c. Expanded agenda
d. Focus on prevention

The correct answer is: Social justice

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The feature of public health that works on fairness in the distribution of benefits and burdens is called _____.

- a. Social justice ✓
- b. Un common culture
- c. Expanded agenda
- d. Focus on prevention

The study was conducted to check whether there is association between asthma and smoking. At the end, it was found that the p-value for the variable is 0.03. Then what is the conclusion to be made by the researcher?

a. There is no association between smoking and asthma

b. There is a weak association between smoking and asthma

c. There is significant association between smoking and asthma ✗

d. We can't say anything from the given information unless additional information is given

The correct answer is: We can't say anything from the given information unless additional information is given

The sum of probabilities of all mutually exclusive outcomes in a sample space equals:

- a. 0
- b. 1
- c. Between 0 and 1 ✗
- d. Depends on the event

The correct answer is: Depends on the event

The two independent sample t -statistic is suitable in the following situation:

a. Comparison of two independent sample means where the samples are <30

b. Comparison of two independent sample means where the samples are >30 or normally distributed ✗

c. Comparison of two independent sample means where the samples are exponentially distributed

d. Comparison of a sample distribution to that of an independent population

e. None

The correct answer is: Comparison of two independent sample means where the samples are <30

When do giving placebo to the control group is unethical?

a. When there is no control group

b. When there is two control group

c. When there is no known drug before

d. When there is standard treatment ✓

The correct answer is: When there is standard treatment

Which analytical epidemiological study design will mostly used in testing epidemic hypothesis?

a. Ecological study

b. Cross sectional study

c. Prospective cohort

d. Retrospective cohort ✕

The correct answer is: Ecological study

Which are not criteria to establish a certain disease for screening program

a. Presence of unacceptable intervention ✓

b. Presence of suitable test

c. Presence of acceptable test to the population

d. Adequately understood natural history of a condition

The correct answer is: Presence of unacceptable intervention

Which Healthcare financing model allows income redistribution through pooling which depends on employment status?

a. State-funded model

b. Social insurance

c. Private voluntary insurance

d. Fee-for-service ✕

The correct answer is: Social insurance

Which of the following Female genital cutting can be classified as Type III Female Genital Mutilation

a. Total removal of clitoris and labia minora with partial removal of the labia majora; and the presence of stitching and narrowing of the vaginal opening ✓

b. Total removal of clitoris, labia minora and labia majora with the introduction of corrosive herbs into the vagina after burning the incised areas

c. Partial removal of the clitoris with total removal of labia minora

d. Total removal of the clitoris with Partial removal of labia minora

The correct answer is: Total removal of clitoris and labia minora with partial removal of the labia majora; and the presence of stitching and narrowing of the vaginal opening

Which of the following best defines a health team?

a. A group of doctors working in the same hospital

b. A group of health professionals with complementary skills working toward a common goal ✓

c. A collection of patients and their families

d. Administrative staff only

The correct answer is: A group of health professionals with complementary skills working toward a common goal

Which of the following best describes transformational leadership?

a. A leader who focuses mainly on enforcing rules and procedures

b. A leader who motivates followers through shared vision and inspiration ✓

c. A leader who avoids decision-making

d. A leader who relies solely on rewards and punishments

The correct answer is: A leader who motivates followers through shared vision and inspiration

Which of the following confidence interval depicts the absence of association between exposure and outcome?

- a. [1.5, 3.45]
- b. [.12, .78]
- c. [.34, 3.45] ✓
- d. [6, 7.6]

The correct answer is: [.34, 3.45]

Which of the following is a modern method of performance appraisal?

a. Graphic rating scale

b. 360-degree feedback ✓

c. Ranking method

d. Confidential report

The correct answer is: 360-degree feedback

Which of the following is correct about PHC?

a. The five principles guide the implementation of PHC.

b. It aims to acquire equity and justice in the health sector. ✓

c. Its implementation is completed during the DERG Regime.

d. One of the components is non-essential drug provision.

The correct answer is: It aims to acquire equity and justice in the health sector.

Which of the following is FALSE about the Syndromic approach of sexually transmitted infections management

a. Syndromic approach covers several possible causes of the infection

b. Syndromic approach reduces the cost of laboratory work up and treatment delay ✗

c. Syndromic approach identifies the specific cause of the infection for treatment

d. Syndromic approach increases cure rate at first treatment

The correct answer is: Syndromic approach identifies the specific cause of the infection for treatment

Which of the following is nutrition specific intervention?

a. Provide family planning

b. Increase agricultural production

c. Improved water provision

d. Micronutrient supplementation ✓

The correct answer is: Micronutrient supplementation

Which of the following is the primary economic role of households as a basic decision-making unit?

a. Hire the services of factors of production and Producing public goods

b. Supplying factors of production and consuming goods and services ✓

c. Regulating markets and provide free services

d. Creating monetary policy and gets income from taxes

The correct answer is: Supplying factors of production and consuming goods and services

Which of the following is TRUE on cause of Maternal Mortality from the Context of delay model?

a. Failure to perceive severity of illness.....Delay in reaching care

b. Lengthy distance to a facility..... Delay in deciding to seek care ✗

c. Negative experience with the health system..... Delay in deciding to seek care

d. Non-availability of health personnel..... Delay in reaching appropriate care

The correct answer is: Negative experience with the health system..... Delay in deciding to seek care

Which of the following pairs is correctly matched regarding market disequilibrium conditions?

a. Excess Demand (Shortage) – Quantity demanded > Quantity supplied – Prices fall

b. Excess Supply (Surplus) – Quantity supplied > Quantity demanded – Prices rise

c. Excess Demand (Shortage) – Quantity demanded < Quantity supplied – Prices rise

d. Excess Supply (Surplus) – Quantity supplied > Quantity demanded – Prices fall ✓

The correct answer is: Excess Supply (Surplus) – Quantity supplied > Quantity demanded – Prices fall

Which of the following statement is not true about lipids?

a. Vegetable oils like olive oil and sunflower oil are rich in unsaturated fatty acids

b. Absolute requirements for fat applies only to unsaturated fat in the diet ✕

c. Junk foods like potato chips, cookies are source of trans-fat.

d. Butter and palm oil are good sources of unsaturated fats.

The correct answer is: Butter and palm oil are good sources of unsaturated fats.

Which of the following variables is the least difficult to change as compared to others?

- a. Knowledge
- b. Value
- c. Attitude
- d. Belief ✕

The correct answer is: Knowledge

Which one is among the intrinsic factors determining the growth of microorganisms in food?

a. Humidity

b. Water activity ✓

c. Temperature

d. Oxygen

The correct answer is: Water activity

A hospital provides free vaccinations for all. This is an example of:

a. Cost sharing

b. Fee waiver ✓

c. Exemption

d. External funding

A manager spends most of his day responding to last-minute crises and urgent emails. He feels overwhelmed and always behind schedule. What is the best way for him to manage his time more effectively?

a. Continue working longer hours

b. Spend more time planning and preventing future problems

c. Ignore urgent matters

d. Delegate everything to others ✕

A patient must pay $25 before her health insurance starts covering costs. This amount is known as:

- a. Coinsurance ✗
- b. Deductible
- c. Copayment
- d. Premium

The correct answer is: Deductible

A person who exclusively feeds milk, egg and bread is mostly likely at a risk of deficiency state called _____

a. Scurvy

b. Beriberi ✕

c. Rickets

d. Night blindness

The correct answer is: Scurvy

A public health officer is leading a team that is going to have a campaign for corona virus vaccination in a Gubalafto district. The team is facing different problems that are hindering them from fulfilling their duties to succeed in the campaign. What should be the first step of the leader in making decisions to solve the problem?

a. Monitor and evaluate

b. Define the problem

c. Identify limiting factors ✕

d. Develop potential alternatives

The correct answer is: Define the problem

A reproductive age women's last six menstrual cycles were recorded as 24, 26, 30, 27, 25, and 27 days. If she wants to use the calendar or rhythm method for fertility regulation, she should avoid intercourse

a. Between day 12 and 13 every month ✗

b. Between day 6 and 19 every month

c. Between day 24 and 30 every month

d. Between day 21 and 28 every month

The correct answer is: Between day 6 and 19 every month

A research report summarizes the results of a t-test by stating: t (35) =5.2, p<0.05. Which of the following is a correct interpretation of this report?

a. The H0 was not rejected and the probability of a Type I error is less than .05.

b. The H0 was not rejected and the probability of a Type II error is less than .05.

c. The H0 was rejected and the probability of a Type I error is less than .05. ✓

d. The H0 was rejected and the probability of a Type II error is less than .05

The correct answer is: The H0 was rejected and the probability of a Type I error is less than .05.

A researcher compares the mean hemoglobin level between two independent groups ($n<30$). The appropriate test is:

- a. Paired t-test
- b. Independent samples t-test ✓
- c. Chi-square test
- d. ANOVA

The correct answer is: Independent samples t-test

A researcher is interested to conduct a study on magnitudes of drug addiction among Woldia university students. Which sampling method is more appropriate to use?

a. Simple random sampling

b. Judgmental sampling

c. Snow ball sampling ✓

d. Convenient sampling

The correct answer is: Snow ball sampling

A researcher is interested to know why pregnant women have poor adherence to Iron-folate. For the problem, he had collected data by interviewing all coming mothers to ANC until his estimated sample size reached. Which sampling method is most likely used by the researcher

a. Cluster sampling

b. Convenient sampling ✓

c. Volunteer sampling

d. Quota sampling

The correct answer is: Convenient sampling

A survey found that one out of five Ethiopians say he or she has visited a doctor in any given month. If 10 people are selected at random, what is the probability that exactly 3 will have visited a doctor last month?

a. 0.11

b. 0.201 ✓

c. 1

d. 0

The correct answer is: 0.201

According to motivation theories, the correct statement about motivation of staffs is--------.

a. Opposite of satisfaction is dissatisfaction. ✗

b. An adequately fulfilled need motivates individuals.

c. Intention to work towards a goal motivates workers.

d. Motivation of an individual is not affected by what others are rewarded.

The correct answer is: Intention to work towards a goal motivates workers.

All of the following are true about width of an interval in estimating true population parameter except?

a. The larger the level of certainty, the narrower the width of an interval ✓

b. The larger the level of certainty, the wider the width of an interval

c. The smaller the level of certainty, the narrower the width of an interval

d. The larger the standard error of the parameter, the wider the width of an interval

e. None

The correct answer is: The larger the level of certainty, the narrower the width of an interval

Assume the daily dietary habit of a person is maize and its product for long period of time, which nutrient will be highly deficient in his body?

- a. Folate
- b. Niacin
- c. Thiamin
- d. Biotin ✕

The correct answer is: Niacin

Ato Kebede is the head of a hospital emergency department. During a major accident, he gives clear and direct orders to his team without asking for input. He expects immediate compliance to ensure quick response and patient safety. Which type of leadership style is Ato Kebede demonstrating?

a. Democratic leadership

b. Autocratic leadership ✓

c. Laissez-faire leadership

d. Transformational leadership

The correct answer is: Autocratic leadership

From a societal perspective, which combination correctly classifies costs of diagnosis, travel to clinic, lost wages and emotional stress respectively

a. Direct medical, Direct non-medical, Indirect, Intangible

b. Indirect, Direct medical, Direct non-medical, Intangible

c. Direct medical, Indirect, Intangible, Direct non-medical ✗

d. Direct non-medical, Indirect, Direct medical, Intangible

The correct answer is: Direct medical, Direct non-medical, Indirect, Intangible

From Bradford hill's criteria the one which is essential from the other

a. Biological plausibility

b. Consistency

c. Dose-response relation ship

d. Temporal relationship ✓

The correct answer is: Temporal relationship

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If a 10% rise in price leads to a 20% increase in quantity supplied, the price elasticity of supply (PES) is:

- a. 0.5
- b. 1.0
- c. 2.0 ✓
- d. 3.0

The correct answer is: 2.0

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If a null hypothesis is rejected at the 0.05 level of significance for a two-tailed test, you

a. will always reject it at the 99 percent level of confidence

b. will always reject it at the 90 percent level of confidence ✗

c. will always not reject it at the 99 percent level of confidence

d. will always not reject it at the 96 percent level of confidence

e. None

The correct answer is: will always reject it at the 99 percent level of confidence

If most of the measurements in a data set are of approximately the similar magnitude except for a few measurements that are quite a bit larger, how would the mean and median of the data set compare and what shape would a histogram of the data set have?

a. The mean would be smaller than the median and the histogram would be skewed with a long-left tail

b. The mean would be larger than the median and the histogram would be skewed with a long right tail ✓

c. The mean would be larger than the median and the graph would be skewed with a long-left tail

d. The mean would be smaller than the median and the histogram would be skewed with a long right tail

e. The mean would be equal to the median and the histogram would be symmetrical

The correct answer is: The mean would be larger than the median and the histogram would be skewed with a long right tail

If the total fixed cost of a health service is $10,000 and variable cost per unit is $5, the total cost for 3,000 units is:

- a. $10,000
- b. $15,000 ✗
- c. $25,000
- d. $20,000

The correct answer is: $25,000