

## PROVISIONAL ANSWER KEY

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Question1:-

Quantitative assessment of the work done is better assessed in

A:-Concurrent supervision

B:-Punitive supervision

C:-Parallel supervision

D:-Consecutive supervision

Correct Answer:- Option-D

Question2:-John Graunt known as the first epidemiologist and demographer did his research in

A:-Lung cancer

B:-Cholera

C:-Mine workers

D:-Mortality

Correct Answer:- Option-D

Question3:-The guidelines laid out for making laws to establish a just society but not enforceable by court is called

A:-Preamble

B:-Fundamental Rights

C:-Directive Principles

D:-Amendments

Correct Answer:- Option-C

Question4:-Which one of the following is an example of appropriate technology ?

A:-Home based growth charts

B:-Balanced diet

C:-Computers in subcentres

D:-Natural method of family planning

Correct Answer:- Option-A

Question5:-The doctor population ratio recommended by WHO

A:-1 : 1000

B:-1 : 30000

C:-1 : 20000

D:-1 : 10000

Correct Answer:- Option-A

Question6:-

Which type of analysis has limited application in health ?

A:-Cost accounting

B:-Cost benefit

C:-Cost effectiveness

D:-Cost efficiency

Correct Answer:- Option-B

Question7:-Budgeting method which requires all expenses to be justified and approved in each budget period is

A:-Recurring budget

B:-Management by objectives

C:-Zero based budgeting

D:-Incremental budgeting

Correct Answer:- Option-C

Question8:-The average number of infections resulting from one infected person given that not everyone is susceptible

A:-Zero reproductive number

B:-Effective reproductive number

C:-Basic reproductive number

D:-Average reproductive number

Correct Answer:- Option-B

Question9:-When container index is calculated for a house the denominator is

A:-All containers in the house

B:-All containers with water in the house

C:-All containers with larva and pupa

D:-All containers with larva

Correct Answer:- Option-B

Question10:-A prevalence of susceptible in a population low enough so that the transmission cannot be sustained is

A:-Elimination

B:-Eradication

C:-Herd immunity

D:-Endemicity

Correct Answer:- Option-C

Question11:-Development of malarial parasite in the anopheline mosquito is an example of

A:-Cyclopropagative

B:-Cyclodevelopmental

C:-Propagative

D:-Developmental

Correct Answer:- Option-A

Question12:-

Soil is a reservoir for all except

A:-Coccidomycosis

B:-Anthrax

C:-Brucellosis

D:-Tetanus

Correct Answer:- Option-C

Question13:-Eschar is a sign of

A:-Tick bite

B:-Mite bite

C:-Scrub typhus

D:-All of the above

Correct Answer:- Option-B

Question14:-PHEIC (Public Health Emergency of International Concern) declared by WHO in 2016 was related to

A:-Swine flu

B:-Zika virus

C:-MERS

D:-SARS

Correct Answer:- Option-B

Question15:-

In Leptospirosis IgM antibodies appear

A:-Immediately

B:-Within three days

C:-Within a week

D:-Within 10 to 12 days

Correct Answer:- Option-C

Question16:-Which one of the following statements is not true about VDRL test ?

A:-It is used for batch testing

B:-It is a specific test for Treponema

C:-It is a screening test

D:-It is used for antenatals

Correct Answer:- Option-B

Question17:-The major mediators of acquired immunity are

A:-Mast cells

B:-Phagocytes

C:-Macrophages

D:-B and T cells

Correct Answer:- Option-D

Question18:-The ultimate desired state in planning process is termed

A:-Vision

B:-Target

C:-Objective

D:-Goal

Correct Answer:- Option-D

Question19:-In which of the following decentralised planning is not implemented ?

A:-AYUSH system

B:-Education

C:-Defence

D:-All of the above

Correct Answer:- Option-C

Question20:-The continuous scrutiny of the factors that determine the occurrence and distribution of disease and other condition of ill health

A:-Evaluation

B:-Monitoring

C:-Surveillance

D:-Supervision

Correct Answer:- Option-C

Question21:-The motivational theory which includes self actualisation is

A:-McClelland's acquired needs theory

B:-ERG theory

C:-Herzberg's dual factor theory

D:-Maslow's hierarchy of needs

Correct Answer:- Option-D

Question22:-Which one of the following is not a special incidence rate ?

A:-Effective incidence rate

B:-Food specific attack rate

C:-Secondary attack rate

D:-Hospital admission rate

Correct Answer:- Option-A

Question23:-The most common study design used to confirm the source of infection in a food poisoning outbreak

A:-Cohort

B:-Case control

C:-Descriptive

D:-All of the above

Correct Answer:- Option-B

Question24:-It is very important to identify Lepra reaction because

A:-It can cause disability

B:-It can increase the spread of the disease

C:-It may change the categorisation of the disease

D:-All of the above

Correct Answer:- Option-A

Question25:-Which one of the following is not a component of one health ?

A:-Plant health

B:-Human health

C:-Animal health

D:-Microbial health

Correct Answer:- Option-D

Question26:-Which type of lipoprotein is directly associated with coronary heart diseases ?

A:-Low density lipoprotein

B:-High density lipoprotein

C:-  
Very low density lipoprotein

D:-Chylomicrons

Correct Answer:- Option-A

Question27:-Maintaining normal body weight (BMI 18.5-24.5) can cause approximate systolic pressure reduction per 10 kilogram body weight by

A:-8-14 mm of Hg

B:-2-8 mm of Hg

C:- 4-9 mm of Hg

D:-5-20 mm of Hg

Correct Answer:- Option-D

Question28:-Which of the following is the top most cancer for both sexes combined in the world ?

A:-Cancer prostate

B:-Cancer breast

C:-Cancer lung

D:-Cancer colovectum

Correct Answer:- Option-B

Question29:-WHO defines blindness if the visual acuity is less than

A:-3/60 with the best possible correction

B:-18/38 with the available correction

C:-9/60 with the best possible correction

D:-6/6 with the best possible correction

Correct Answer:- Option-A

Question30:-Which epidemiological model best explains the non communicable diseases ?

A:-Epidemiological triad

B:-Epidemiological wheel

C:-Epidemiological web

D:-None of the above

Correct Answer:- Option-C

Question31:-When non-communicable diseases are important public health problem the epidemiological transition ratio will be

A:-One

B:-Less than one

C:-More than one

D:-Zero

Correct Answer:- Option-B

Question32:-

Which of the following modes of prevention does the tracking of blood pressure fit in ?

A:-Primordial

B:-Primary

C:-Secondary

D:-Specific protection

Correct Answer:- Option-B

Question33:-

Fit India movement initiatives includes all except

A:-Fit India freedom run

B:-Age specific guidelines for physical exercise

C:-Campaign was conducted by ministry of youth affairs and sports

D:-Say no to tobacco

Correct Answer:- Option-D

Question34:-Sustainable development goal, the specific target for one third reduction in premature mortality from NCDs by year 2030 is

A:-Target 3.1

B:-Target 3.2

C:-Target 3.3

D:-Target 3.4

Correct Answer:- Option-D

Question35:-

In prevention of accidents, wearing helmet is

A:-Primordial prevention

B:-Specific protection

C:-Secondary prevention

D:-Disability limitation

Correct Answer:- Option-B

Question36:-

Haddon's matrix is used for explaining the epidemiology and prevention of

A:-Road traffic accidents

B:-Domestic violence

C:-Terrorist violence

D:-War related injuries

Correct Answer:- Option-A

Question37:-

Which of the following is not a classical lifestyle related cancer ?

A:-Oral cancer

B:-Lung cancer

C:-Cervical cancer

D:-Ovarian cancer

Correct Answer:- Option-C

Question38:-

In which of the following frequency measure the denominator is "person time" ?

A:-Cumulative incidence

B:-Incidence density

C:-Period prevalence

D:-Cumulative incidence proportion

Correct Answer:- Option-B

Question39:-

The 95% of confidence interval for RR or OR is considered statistically significant when

A:-CI does not include zero

B:-CI does not include one

C:-CI includes one

D:-CI includes zero

Correct Answer:- Option-B

Question40:-

Randomization is done for all except

A:-Eliminating selection bias

B:-Every individual get an equal chance of being allocated into study or control group

C:-Allow comparability between groups

D:-It ensures that the investigator has a control over allocation of participants

Correct Answer:- Option-D

Question41:-All are risk factor intervention trials except.

A:-The standford three community study

B:-The north kerelia project Finland

C:-Framingham study

D:-Lipid research clinic study

Correct Answer:- Option-C

Question42:-A cohort study was conducted to find out the relationship between smoking and lung cancer. A total of 400 smokers were compared against a total of 400 non-smokers. Over a period of 10 years follow up 80 smokers and 20 non-smokers develop carcinoma lung. What percentage carcinoma lung can be attributed to smoking as a risk factor ?

A:-50%

B:-75%

C:-80%

D:-25%

Correct Answer:- Option-B

Question43:-If one person dies due to some disease out of 100 persons the odds of death is

A:-1/100

B:-1/99

C:-99/100

D:-100/99

Correct Answer:- Option-B

Question44:-The following diagrams can be used for presentation of qualitative data except

A:-Bar diagram

B:-Sector diagram

C:-Picture diagram

D:-Scatter diagram

Correct Answer:- Option-D

Question45:-An ROC curve is simply a graph of

A:-Sensitivity versus specificity

B:-Sensitivity versus (1-sensitivity)

C:-Sensitivity versus (1-specificity)

D:-Specificity versus sensitivity

Correct Answer:- Option-C

Question46:-Two pathologists were asked to score the grades of dysplasia in cervical smear using a scale. Which of the following would adequately serve as measure of inter-rater reliability ?

A:-Intra class correlation coefficient

B:-Kappa statistics

C:-Chi-square test

D:-Correlation coefficient

Correct Answer:- Option-A

Question47:-All are true about type I error except

A:-Also called 2 error (Alpha error)

B:-It is probability of rejecting null hypothesis when it is true

C:-It is the level of significance

D:-It is the error of falsely stating two drugs are equal when they are different

Correct Answer:- Option-D

Question48:-Which of the following statement is/are correct about Net Protein Utilization (NPU) ?

i. NPU is defined as nitrogen retained by nitrogen consumed  $\times 100$

ii. Egg has the highest NPU value

iii. 1 gram protein is equivalent to 1 gram nitrogen

A:-Only ii and iii

B:-Only i and ii

C:-All of the above (i, ii and iii)

D:-Only i and iii

Correct Answer:- Option-B

Question49:-Dose of Vit A prophylaxis in 9-11 months old child is

A:-100,000 1u

B:-200,000 1u

C:-30,000 1u

D:-60,000 1u

Correct Answer:- Option-A

Question50:-Regarding food toxicants which of the following statement is/are correct ?

i. Epidemic dropsy is caused by a toxic alkaloid sanguinarine.

ii. Beta Oxalyl Amino Alanine (BOAA) causes liver cirrhosis.

iii. Aflatoxins of group B1 and G1 are potent hepato toxins.

A:-Only ii and iii

B:-Only i and ii

C:-All of the above (i, ii and iii)

D:-Only i and iii

Correct Answer:- Option-D

Question51:-Regarding B group vitamins which one of the following statement is/are correct

- i. Vitamin B12 is found in foods of vegetable origin.
- ii. Pyridoxine deficiency is associated with peripheral neuritis.
- iii. Niacin deficiency results in pellagra.

A:-Only ii and iii

B:-Only i and ii

C:-All of the above (i, ii and iii)

D:-Only i and iii

Correct Answer:- Option-A

Question52:-Limiting amino acid in pulse protein is

A:-Lysine

B:-Threonine

C:-Methionine

D:-Tryptophan

Correct Answer:- Option-C

Question53:-Regarding human milk and cow's milk which of the following statement is/are correct ?

- i. Human milk has three times as much protein as cow's milk.
- ii. Human milk contains higher percentage of Linoleic acid and oleic acid.
- iii. Human milk contains more sugar than cows milk.

A:-Only ii and iii

B:-Only i and ii

C:-All of the above (i, ii and iii)

D:-Only i and iii

Correct Answer:- Option-A

Question54:-Regarding iodine deficiency disorder which of the following statement is/are correct ?

- i. Goitre prevalence of 10% is cut-off value for endemicity.
- ii. Monitoring done by urinary iodine excretion levels.
- iii. Exclusively found in Himalayan goitre belt.

A:-Only ii and iii

B:-Only i and ii

C:-All of the above (i, ii and iii)

D:-Only i and iii

Correct Answer:- Option-B

Question55:-Phosphatase test in milk is done to know

A:-Contamination of milk

B:-Nutritive value

C:-Quality of pasteurization

D:-Coliform count

Correct Answer:- Option-C

Question56:-Which of the following statement is/are correct about 'Anaemia Mukht Bharat' program ?

- i. It includes adolescents and women of reproductive age (20-49 years) only.
- ii. There are six interventions.
- iii. For school going adolescent girls and boys and out of school adolescent girls weekly iron and folic acid tablets are distributed.

A:-Only ii and iii

B:-Only i and ii

C:-All of the above (i, ii, iii)

D:-Only i and iii

Correct Answer:- Option-A

Question57:-All are examples of food fortification except.

A:-Iodisation of salt

B:-Vit. A in vanaspati

C:-Fluoridation of water

D:-Saffron colour in milk

Correct Answer:- Option-D

Question58:-Regarding hardness of water which of the following statement is/are correct ?

i. Temporary hardness is due to calcium and magnesium salts of bicarbonates.

ii. Permanent hardness is due to calcium and magnesium sulphates.

iii. Boiling removes permanent hardness.

A:-Only ii and iii

B:-Only i and ii

C:-All of the above (i, ii and iii)

D:-Only i and iii

Correct Answer:- Option-B

Question59:-Disinfecting action of chlorine in water is mainly due to

A:-Hypochlorous acid

B:-Hydrogen chloride

C:-Hydrogen ions

D:-Hypochlorite ions

Correct Answer:- Option-A

Question60:-Horrock's apparatus is used to estimate

A:-Free chlorine

B:-Combined chlorine

C:-Free and combined chlorine

D:-Chlorine demand

Correct Answer:- Option-D

Question61:-Minimum residual chlorine level after disinfection of water should be

A:-0.2 mg/L

B:-0.5 mg/L

C:-5 mg/L

D:-3 mg/L

Correct Answer:- Option-B

Question62:-Regarding indices of thermal comfort which of the following statement is/are correct ?

- i. Cooling power takes into account air temperature, humidity and air movement.
- ii. Corrected effective temperature deals with air temperature, velocity and humidity only.
- iii. Effective temperature scale ignores radiation from surrounding.

A:-Only ii and iii

B:-Only i and ii

C:-All of the above (i, ii and iii)

D:-Only i and iii

Correct Answer:- Option-D

Question63:-The best parameters to measure air pollution is

A:-SO<sub>2</sub>

B:-CO

C:-N<sub>2</sub>O

D:-CO<sub>2</sub>

Correct Answer:- Option-A

Question64:-Recommended illumination range for satisfactory vision

A:-25-50 foot-candles

B:-60-75 foot-candles

C:-15-20 foot-candles

D:-85-100 foot-candles

Correct Answer:- Option-C

Question65:-Exposure to noise above this minimum level may rupture tympanic membrane and cause permanent loss of hearing

A:-90 dB

B:-110 dB

C:-120 dB

D:-160 dB

Correct Answer:- Option-D

Question66:-Regarding overcrowding which of the following statement is/are correct ?

- i. Overcrowding is there when 5 persons occupy in 2 rooms.
- ii. Overcrowding is considered to exist when 2 persons over 9 years of age, not husband and wife of opposite sex sleep in the same room.
- iii. Overcrowding is considered to exist when floor space for one person is 70-90 square feet.

A:-Only ii and iii

B:-  
Only i and ii

C:-All of the above (i, ii and iii)

D:-Only i and ii

Correct Answer:- Option-B

Question67:-Regarding hospital waste management which of the following statement is/are correct ?

- i. Human anatomical waste are segregated in yellow bag.
- ii. Waste sharps should be segregated in white translucent puncture proof container.
- iii. Intravenous tubes and sets are segregated in red bag.

A:-Only ii and iii

B:-Only i and ii

C:-  
All of the above (i, ii and iii)

D:-

Only i and iii

Correct Answer:- Option-C

Question68:-Periodic examination of factory worker is a type of

A:-Primary prevention

B:-Primordial prevention

C:-Secondary prevention

D:-Tertiary prevention

Correct Answer:- Option-C

Question69:-Which of the following statement is/are correct about lead poisoning ?

i. Greatest source is drinking water from lead pipes.

ii. A useful screening test is coproporphyrin in urine

iii. Basophilic stippling of RBC is a sensitive parameter.

A:-Only ii and iii

B:-Only i and ii

C:-All of the above (i, ii and iii)

D:-Only i and iii

Correct Answer:- Option-A

Question70:-The size limit of respirable dust responsible for pneumoconiosis

A:-< 1 micron

B:-< 5 micron

C:-< 10 micron

D:-< 50 micron

Correct Answer:- Option-B

Question71:-Which of the following statement is/are correct about Employee State Insurance Scheme (ESI Scheme) ?

i. The union minister for labour is the Chairman.

ii. In areas where employees are less than 750 mobile dispensaries are established.

iii. In areas having concentration of 1000 or more employees' family units service

dispensaries are established.

A:-Only ii and iii

B:-Only i and ii

C:-All of the above (i, ii and iii)

D:-Only i and iii

Correct Answer:- Option-D

Question72:-Which of the following statement is/are correct about Factories Act ?

i. Act prohibits employment of children below the age of 14 years.

ii. Women cannot be employed in all types of work.

iii. Adolescents aged 15-18 years can work between 7 pm to 6 am.

A:-Only ii and iii

B:-Only i and ii

C:-All of the above (i, ii and iii)

D:-Only i and iii

Correct Answer:- Option-B

Question73:-All are components of National Mental Health Programme except.

A:-Upgrading of PHC

B:-District Mental Health Programme

C:-Upgradation of psychiatric wings of Government Medical College

D:-Modernisation of Government Mental Hospitals

Correct Answer:- Option-A

Question74:-All are true about WHO except

A:-Was founded in 1948 as nodal agency that connects nations, partners and people to promote health.

B:-WHO's only financing is from voluntary contribution from NGOs world over

C:-Working with 194 member states across 6 regions

D:-Geneva is the head quarters

Correct Answer:- Option-B

Question75:-All are true about one health except

A:-It is the tripartite organizations of the food and agriculture organization of the United Nations (FAO), the World Health Organization (WHO) and World Organisation for Animal Health (WOAH)

B:-It is the quadripartite of the FAO, WHO, World Organisation for Animal Health (WOAH) and UNEP( United Nations Environment Programme)

C:-One Health is a holistic and systems-based approach that recognizes the interconnection between the health of humans, animals, plants and the environment.

D:-Food safety strategies and curbing AMR (Anti-Microbial Resistance) are its components

Correct Answer:- Option-A

Question76:-Cardinal principles of medical ethics are all except.

A:-Autonomy

B:-Beneficence and non-maleficence

C:-Justice

D:-No conflict of interest

Correct Answer:- Option-D

Question77:-The back bone of all MCH services

A:-Risk approach

B:-Antenatal visits

C:-Home visits

D:-Prenatal advice

Correct Answer:- Option-C

Question78:-Exclusive Breast-Feeding means

A:-feeding the infant only breast milk for the first 6 months of age

B:-starting weaning food along with breast milk from 4 months of age

C:-feeding the infant only breast milk for the first 6 months of age, introduction of complementary foods at 6 months while continuing breast feeding up to the age of 2 yrs or beyond

D:-starting weaning food along with breast milk from 4 months of age and continuing other food till 2 yrs of age

Correct Answer:- Option-C

Question79:-Micronutrient malnutrition is a group of conditions caused by deficiency of all of the following except

A:-Vitamin A

B:-Calcium

C:-Protein

D:-Iron and zinc

Correct Answer:- Option-C

Question80:-Following are the “three delays” of maternal and child death.

A:-delay in deciding to seek care

B:-delay in immunizing the mother and child

C:-delay in reaching appropriate health facility

D:-delay in receiving quality care once inside an institution

Correct Answer:- Option-B

Question81:-All are true about Rashtriya Bal Swasthya Karyakram (RBSK) except

A:-it covers children from birth to 18yrs

B:-it includes defect at birth, deficiencies, diseases and development delay

C:-0-6 yrs children are managed at District Early Intervention Center

D:-cost of treatment should beared by the family

Correct Answer:- Option-D

Question82:-Scheme for combat trafficking of children is

A:-Sabla

B:-Ujjawala

C:-Nirmal

D:-Kishori

Correct Answer:- Option-B

Question83:-Most prevalent mental health problem in India

A:-tobacco use disorder

B:-alcohol use disorder

C:-depressive disorder

D:-suicidal problem

Correct Answer:- Option-A

Question84:-Hidden hunger is

A:-Micronutrient deficiency

B:-Macronutrient deficiency

C:-Chromosomal deficiency

D:-Enzyme deficiency

Correct Answer:- Option-A

Question85:-The following three are used to calculate Global Hunger Index except

A:-proportion of undernourished population

B:-proportion of undernourished pregnant women

C:-proportion of under five children who are underweight

D:-mortality rate of under five

Correct Answer:- Option-B

Question86:-Human poverty index include all except

A:-underweight

B:-knowledge

C:-longevity

D:-decent standard of living

Correct Answer:- Option-A

Question87:-Which is largest insurance scheme with a cover Rs. 5,00,000 per family per year ?

A:-National Pension Scheme

B:-Ayushman Bharat

C:-Pradhan Mantri Jan Dhan Yojana

D:-Atal Pension Yojana

Correct Answer:- Option-B

Question88:-The method which is generally more effective in changing human behaviour is

A:-Counselling

B:-Focus group discussion

C:-Mass media

D:-A series of lectures

Correct Answer:- Option-A

Question89:-The most important objective of health education is to

A:-inform individuals

B:-change attitudes

C:-bring about behavioral change

D:-all of the above

Correct Answer:- Option-C

Question90:-Kuppuswamy's socioeconomic status scale is based on the following except

A:-education

B:-occupation

C:-housing

D:-income

Correct Answer:- Option-C

Question91:-Which type of disorder is Thalassemia ?

A:-autosomal dominant

B:-autosomal recessive

C:-xlinked recessive

D:-xlinked dominant

Correct Answer:- Option-B

Question92:-In elderly hearing loss occurs due to

A:-conductive deafness

B:-sensorineural deafness

C:-degenerative changes in temporal cortex

D:-none of the above

Correct Answer:- Option-B

Question93:-Which of the following State in India has largest tribal population ?

A:-Maharashtra

B:-Odisha

C:-Jharkhand

D:-Madhya Pradesh

Correct Answer:- Option-D

Question94:-Sex ratio among tribal population in India is

A:-worse than national average

B:-better than national average

C:-same as national ratio

D:-not known

Correct Answer:- Option-B

Question95:-In which year latest international health regulations came into effect ?

A:-1969

B:-2019

C:-1970

D:-2005

Correct Answer:- Option-D

Question96:-Which of the following disease is not under international surveillance ?

A:-malaria

B:-influenza

C:-poliomyelitis

D:-small pox

Correct Answer:- Option-A

Question97:-Which of the following is a strategy specific for containment ?

A:-quarantine

B:-isolation

C:-active surveillance

D:-curfew

Correct Answer:- Option-A

Question98:-International definition of poverty is

A:-< 1 US dollars per head per day

B:-< 1.9 US dollars per head per day

C:-> 2 US dollars per head per day

D:-2 US dollars per head per day

Correct Answer:- Option-B

Question99:-Analysis which measure both inputs and outcomes in terms of money for making comparison between two different strategies is called

A:-cost benefit analysis

B:-cost effective analysis

C:-input output analysis

D:-cost minimization analysis

Correct Answer:- Option-A

Question100:-In our country birth and death should be registered within

A:-7 days

B:-14 days

C:-21 days

D:-28 days

Correct Answer:- Option-C