

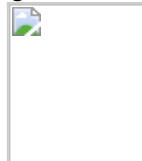
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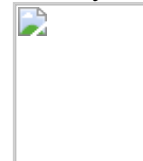
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Exam Date: **07-Oct-2020**Exam Time: **09:00-12:00**Examination: **1. Course Code - M.Phil.****2. Field of Study - Social Sciences in Health (CSMP)**

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**SECTION 1 - PART A****Question No.1 (Question Id - 17)**

In a research study, using the techniques of in-depth interview, a sample is saturated when :

- (A) You have interviewed about 30 participants.
 (B) **No new information is emerging from your interviews. (Correct Answer)**
 (C) You have interviewed about 90 participants.
 (D) You have interviewed each participant twice.

Question No.2 (Question Id - 6)

An open and trusting relationship is especially important in qualitative research between researchers and the people they are observing. This is known as :

- (A) Friendly behavior
 (B) Relationship building
 (C) **Rapport building (Correct Answer)**
 (D) None of the above

Question No.3 (Question Id - 31)

Reliability in research refers to which of the following ?

- (A) **Stability or consistency of measurements, that is, whether or not the same results would be achieved if the test or measure is applied repeatedly**

(Correct Answer)

- (B) Research can be conducted anywhere
 (C) Does not influence data processing
 (D) All of the above

Question No.4 (Question Id - 40)

Match **List - I** and **List - II** :

List - I	List - II
(Authors)	(Books)
A. Jeffrey D Sachs	I. A History of Geographical Discovery and Exploration
B. Atul Gawande	II. The End of Poverty
C. RE Dickinson	III. The Makers of Modern Geography
D. JNL Baker	IV. Being Mortal

Choose the **correct** answer from the options given below :

- (A) A - III, B - I, C - II, D - IV
 (B) A - III, B - I, C - IV, D - II
 (C) **A - II, B - IV, C - III, D - I (Correct Answer)**
 (D) A - IV, B - I, C - III, D - II

Question No.5 (Question Id - 11)

Which one of the following is not a level of measurement ?

- (A) Nominal
 (B) Ratio
 (C) Interval
 (D) **Mean (Correct Answer)**

Question No.6 (Question Id - 45)

Which of the following statements **does not** explain the association between theory and fact in research ?

- (A) Theory predicts facts
- (B) Facts initiate theories
- (C) **Theory does not reflect on the gaps in knowledge (Correct Answer)**
- (D) Facts redefine and clarify theory

Question No.7 (Question Id - 19)

A research in which the researcher's approach to social inquiry involve the planned use of two or more different kinds of data gathering and analysis techniques is known as :

- (A) Action research
- (B) Quantitative research
- (C) **Mixed method research (Correct Answer)**
- (D) Mixed model research

Question No.8 (Question Id - 33)

Stratified sampling is often used in survey research. It involves :

- (A) Collection of quantitative data on at least two variables.
 - (B) Analysis of patterns of association in the phenomenon under study.
 - (C) **Ordering the sampling frame by one or more characteristics and then selecting the same percentage of people or items from each sub-group either using simple random sampling or systematic random sampling.**
- (Correct Answer)**
- (D) None of the above

Question No.9 (Question Id - 20)

One of the following research is concerned with people and their life contexts, with philosophical questions relating to the nature of knowledge and truth (epistemology), values (axiology) and being (ontology), which underpin human judgments and activities :

- (A) Natural Science
- (B) **Social Science (Correct Answer)**
- (C) Environmental Science
- (D) Physical Science

Question No.10 (Question Id - 42)

What are the basic elements of scientific methods in social science research ?

- (A) **Concepts and Hypothesis (Correct Answer)**
- (B) Writing Skills
- (C) Visual Impressions
- (D) None of the above

Question No.11 (Question Id - 23)

Given below are two statements, one is labeled as **Assertion A** and the other is labeled as **Reason R**.

Assertion A:

Qualitative research is often exploratory and it is typically used when a great deal is already known about the topic of interest.

Reason R:

Qualitative research relies on the collection of non-numerical data such as words and pictures, it is used to generate hypothesis and develop theory about phenomena in the world by using inductive scientific method.

In the light of the above statements, choose the **most appropriate** answer from the options given below :

- (A) Both **A** and **R** are correct and **R** is the correct explanation of **A**
(B) Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
(C) **A** is correct but **R** is not correct
(D) **A is not correct but R is correct (Correct Answer)**

Question No.12 (Question Id - 39)

As originally formulated by the demographer Abdel Omran during the 1970s, there are three stages of *Demographic Transition Theory*. Which of the following describe these stages the best ?

- A. Age of pestilence and famines
B. Age of receding pandemics
C. Age of degenerative and manmade diseases
D. Age of poor communication
E. None of the above

Choose the **correct** answer from the options given below :

- (A) A Only
(B) B and D Only
(C) **A, B and C Only (Correct Answer)**
(D) D and E Only

Question No.13 (Question Id - 1)

A study based on observations representing a single point in time is :

- (A) Longitudinal Study
(B) Cohort Study
(C) **Cross-sectional Study (Correct Answer)**
(D) None of the above

Question No.14 (Question Id - 18)

You can "situate your sample" by :

- (A) Disclosing identifying information about your participants.
(B) Describing what your participants were wearing during the interview.
(C) **Providing a detailed summary of the demographic information you collected.**

(Correct Answer)

- (D) Agreeing and disagreeing with your participants.

Question No.15 (Question Id - 22)

Given below are two statements, one is labeled as **Assertion A** and the other is labeled as **Reason R**.

Assertion A:

A wide range of statistical tools and techniques can be used to describe and interpret data that are quantitative or can be measured numerically.

Reason R:

Numerical data can make a valuable contribution in both quantitative and qualitative research, whether it is simple percentages or the result of complicated techniques.

In the light of the above statements, choose the **most appropriate** answer from the options given below :

- (A) **Both A and R are correct and R is the correct explanation of A (Correct Answer)**
(B) Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
(C) **A** is correct but **R** is not correct
(D) **A** is not correct but **R** is correct

Question No.16 (Question Id - 50)

The '*classical experimental design*' is developed from positive and negative canons of

logic. What did John Stuart Mill call it ?

- (A) Method of Logic
- (B) Method of experiments
- (C) **Method of difference (Correct Answer)**
- (D) Method of research

Question No.17 (Question Id - 15)

Another name of randomization is :

- (A) Random sampling
- (B) **Random allocation (Correct Answer)**
- (C) Random error
- (D) Random variable

Question No.18 (Question Id - 47)

The formidable problem that follows the task of defining the research problem is the preparation of the design of the research project. What is it popularly known as ?

- A. Research tools
- B. Research hypothesis
- C. Research design
- D. Research question
- E. Research objectives

Choose the **correct** answer from the options given below :

- (A) A only
- (B) B only
- (C) **C only (Correct Answer)**
- (D) D and E only

Question No.19 (Question Id - 30)

Case Control Study :

- A. Proceeds from 'effect to cause'.
- B. Proceeds from 'cause to effect'.
- C. Involves fewer number of subjects.
- D. Involves larger number of subjects.
- E. Is expensive.

Choose the **correct** answer from the options given below :

- (A) B, D Only
- (B) **A, C Only (Correct Answer)**
- (C) D, E Only
- (D) A, E Only

Question No.20 (Question Id - 25)

Given below are two statements :

Statement I:

The task of engaging with the literature in a qualitative research is not to review but to map the field (i.e. to locate the place for the research and decide which conversation the research is joining).

Statement II:

The literature is not a monolith, it is plural. The literature comprises a field or fields of knowledge production.

In the light of the above statements, choose the **correct** answer from the options given below :

- (A) **Both Statement I and Statement II are true (Correct Answer)**
- (B) Both **Statement I** and **Statement II** are false
- (C) **Statement I** is correct but **Statement II** is false
- (D) **Statement I is incorrect but Statement II is true**

Question No.21 (Question Id - 4)

A type of non-probability sampling in which the units to be observed are selected on the basis of the researcher's judgment which will be most representative is :

- (A) Quota sampling
- (B) **Purposive sampling (Correct Answer)**
- (C) Snowball sampling
- (D) Simple random sampling

Question No.22 (Question Id - 13)

Which of the following set correctly lists out all the synonyms of "Reference population" ?

- (A) **Target population, Source population, Universe (Correct Answer)**
- (B) Target population, Study population, Universe
- (C) Target population, Source population, External population
- (D) None of the above

Question No.23 (Question Id - 35)

The Sample Registration System is :

- (A) **A large scale demographic survey which provides reliable annual estimates of mortality and fertility indicators at national and sub-national levels (Correct Answer)**
- (B) It is a system to register movement of working population
- (C) It is the registration of marriages occurring at peripheral institutions
- (D) None of the above

Question No.24 (Question Id - 16)

Which of the following is not a method of control of confounding variables ?

- (A) Restriction
- (B) Matching
- (C) Stratified analysis
- (D) **Ensuring use of accurate instruments (Correct Answer)**

Question No.25 (Question Id - 2)

Erroneously drawing conclusions about individuals solely from the observation of groups is :

- (A) Spurious relationship
- (B) **Ecological fallacy (Correct Answer)**
- (C) Correlation
- (D) None of the above

Question No.26 (Question Id - 26)

Match List - I with List - II :

List - I	List - II
A. Systematic Sampling	I. To obtain representative sample from an un-homogeneous group
B. Stratified Sampling	II. To divide an area/population into a relatively small subdivisions for inclusion in overall sample

C. Cluster Sampling	III. To further developed on the principle of cluster sampling
D. Multi-Stage Sampling	IV. To select every 'i'th item on a list

Choose the **correct** answer from the options given below :

- (A) A - III, B - II, C - IV, D - I
 (B) A - II, B - III, C - I, D - IV
 (C) **A - IV, B - I, C - II, D - III (Correct Answer)**
 (D) A - I, B - IV, C - III, D - II

Question No.27 (Question Id - 48)

Given below are two statements :

Statement I :

Science rests upon a series of postulates or assumptions which are themselves fundamentally unproved and unprovable. These postulates deal with the validity of human knowledge.

Statement II :

We can 'assert' that these postulates are true; we can 'believe' them; but we cannot prove them. They represent those problems in the area of philosophy of science which is usually called epistemology.

In the light of the above statements, choose the **most appropriate** answer from the options given below :

- (A) **Both Statement I and Statement II are correct (Correct Answer)**
 (B) Both **Statement I** and **Statement II** are incorrect
 (C) **Statement I** is correct but **Statement II** is incorrect
 (D) **Statement I** is incorrect but **Statement II** is correct

Question No.28 (Question Id - 3)

Any technique in which samples are selected in some way that is not suggested by probability theory is :

- (A) Probability sampling
 (B) **Non-probability sampling (Correct Answer)**
 (C) Random sampling
 (D) All of the above

Question No.29 (Question Id - 49)

Why is research design needed in a scientific inquiry ?

- A. To state a clear statement of the research problem
 B. It facilitates arrangement of conditions for collection and analysis of data to meet the aim of research
 C. Gives scope for advance planning for research methods to be adopted
 D. Makes research efficient
 E. All of the above

Choose the **correct** answer from the options given below :

- (A) A only
 (B) B only
 (C) C and D only
 (D) **E only (Correct Answer)**

Question No.30 (Question Id - 43)

A 'definition' in research is used to define best, a concept in which of the following ways ?

- (A) Textual relevance
- (B) Research setting
- (C) **Conceptual and operational (Correct Answer)**
- (D) None of the above

Question No.31 (Question Id - 36)

Given below are two statements, one is labeled as **Assertion A** and the other is labeled as **Reason R**.

Assertion A:

Induction operates on the assumption that if something is true in a few observations, it will be true also in yet to be observed instances, and hence true in general.

Reason R:

This approach can be tracked back to the book 'Novum Organum' published in 1620 and written by philosopher Francis Bacon.

In the light of the above statements, choose the **most appropriate** answer from the options given below :

- (A) **Both A and R are correct and R is the correct explanation of A (Correct Answer)**
- (B) Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
- (C) **A** is correct but **R** is not correct
- (D) **A** is not correct but **R** is correct

Question No.32 (Question Id - 41)

As per the Sample Registration System 2017, what is the estimated death rate of India ?

- (A) 7.8 deaths per thousand population
- (B) **6.3 deaths per thousand population (Correct Answer)**
- (C) 8.7 deaths per thousand population
- (D) 2.2 deaths per thousand population

Question No.33 (Question Id - 21)

A method of social research that aims to analyze the qualitative and/or quantitative description of documents, books, newspapers and other forms of written material is :

- (A) Critical Analysis
- (B) Context Analysis
- (C) **Content Analysis (Correct Answer)**
- (D) Need based review

Question No.34 (Question Id - 38)

A ratio is a simple mathematical measurement. Which of the following is **not** true ?

- A. It is one number divided by the other (x / y or $x : y$).
- B. It is dimensionless, i.e., it has no units.
- C. 'x' and 'y' may be totally unrelated.
- D. It is same as percentage.
- E. Sex Ratio is an example.

Choose the **correct** answer from the options given below :

- (A) A and B Only
- (B) C Only
- (C) A and C Only
- (D) **D Only (Correct Answer)**

Question No.35 (Question Id - 24)

Arrange the research process in sequence :

- A. What is the research study about ?
- B. What will be the research design/research techniques ?
- C. Where will the research study be carried out ?
- D. Why is the research study being made ?
- E. How will the data be analyzed and report be prepared ?

Choose the **correct** answer from the options given below :

- (A) A, B, C, D, E
- (B) A, C, E, B, D
- (C) **A, D, C, B, E (Correct Answer)**
- (D) B, D, C, E, A

Question No.36 (Question Id - 10)

A form of sociological research in which the investigator joins the people he or she is studying and becomes part of their day to day lives is :

- (A) Non-participant observation
- (B) Indepth interview
- (C) **Participant observation (Correct Answer)**
- (D) None of the above

Question No.37 (Question Id - 27)

Given below are two statements :

Statement I:

In sciences, investigators try to achieve two kinds of explanations; association and theories.

Statement II:

Theories explain associations and contain series of statements. Associations usually simply state an observed relationship between two or more measured variables.

In the light of the above statements, choose the **correct** answer from the options given below :

- (A) **Both Statement I and Statement II are true (Correct Answer)**
- (B) Both **Statement I** and **Statement II** are false
- (C) **Statement I** is correct but **Statement II** is false
- (D) **Statement I** is incorrect but **Statement II** is true

Question No.38 (Question Id - 34)

Non-Probability Sampling is an important technique in research. Which of the following best describe its characteristics ?

- (A) Involves the collection of quantitative data only.
 - (B) **It adopted when researchers target a particular group and are not always seeking to generalize finding to the population overall.**
- (Correct Answer)**
- (C) It is useful in establishing causality between study variables.
 - (D) All of the above.

Question No.39 (Question Id - 46)

Given below are two statements :

Statement I :

The basic design of logical proof were formulated by John Stuart Mill and still remain the foundation of experimental procedure, although many refinements have been made.

Statement II :

John Stuart Mill's analysis provides two methods with which association between the phenomena is examined - 'method of agreement' and 'negative canon of agreement'.

In light of the above statements, choose the **most appropriate** answer from the options given below :

- (A) **Both Statement I and Statement II are correct (Correct Answer)**
- (B) Both **Statement I** and **Statement II** are incorrect
- (C) **Statement I** is correct but **Statement II** is incorrect
- (D) **Statement I** is incorrect but **Statement II** is correct

Question No.40 (Question Id - 7)

A group of subjects interviewed together, prompting and directing a discussion is :

- (A) **Focus Group discussion (Correct Answer)**
- (B) Group Interview
- (C) Group Work
- (D) None of the above

Question No.41 (Question Id - 8)

The examination of societies or social units over time and in comparison with one another is :

- (A) Historical research
- (B) Comparative research
- (C) **Historical and Comparative research (Correct Answer)**
- (D) Longitudinal research

Question No.42 (Question Id - 12)

Data regarding a qualitative variable can be summarized by the following method :

- (A) By calculating the arithmetic mean
- (B) **By making categories and calculating percentages (Correct Answer)**
- (C) Both the above methods
- (D) None of the above methods

Question No.43 (Question Id - 29)

Match **List - I** with **List - II** :

List - I	List - II
A. Ethnology	I. A description of a society's customary behavior and ideas
B. Ethnography	II. The study of how and why recent cultures differ and are similar
C. Ethnocentric	III. Creation of a new cultures
D. Ethnogenesis	IV. Judgment of other cultures solely in terms of One's own culture

Choose the **correct** answer from the options given below :

- (A) A - I, B - III, C - II, D - IV
- (B) A - II, B - I, C - III, D - IV
- (C) **A - II, B - I, C - IV, D - III (Correct Answer)**
- (D) A - III, B - I, C - IV, D - II

Question No.44 (Question Id - 37)

Given below are two statements :

Statement I:

In epidemiological circles, the work of the philosopher Karl Popper (1902-1994) has evoked considerable debate.

Statement II:

Karl Popper's influential 'Logic of Scientific Discovery' was originally published in German in 1934.

In the light of the above statements, choose the **correct** answer from the options given below :

- (A) **Both Statement I and Statement II are true (Correct Answer)**
- (B) Both **Statement I** and **Statement II** are false
- (C) Statement **I** is correct but Statement **II** is false
- (D) Statement **I** is false but Statement **II** is true

Question No.45 (Question Id - 44)

Which of the following is NOT true about hypothesis in research ?

- A. Conceptually clear
- B. Have empirical referents
- C. Specific
- D. Related to available techniques
- E. No theoretical association

Choose the **correct** answer from the options given below :

- (A) A only
- (B) B and C only
- (C) D and E only
- (D) **E only (Correct Answer)**

Question No.46 (Question Id - 32)

Randomized Control Trials or RCTs are a form of experimental designs. Which one of the following best describes it ?

- (A) In the RCTs the measurements done can be quantified.
- (B) In the RCTs the data required can be easily collected.
- (C) In the RCTs variable cannot be assigned specific values.
- (D) **In RCTs participants are allocated truly randomly to an experimental group and a control group, enabling unmeasured variables to be taken into account for internal validity.**

(Correct Answer)

Question No.47 (Question Id - 14)

Which of the following procedure will give us an idea about the strength of association between an exposure and an outcome variable ?

- (A) 't' test
- (B) Chi-square test
- (C) Both the above
- (D) **None of the above (Correct Answer)**

Question No.48 (Question Id - 5)

The general term for samples selected in accord with probability theory is :

- (A) Non-probability sampling
- (B) Quota sampling
- (C) Purposive sampling
- (D) **Probability sampling (Correct Answer)**

Question No.49 (Question Id - 9)

Studies that determine whether the results of a programme justify its expense is :

- (A) Monitoring studies
- (B) **Cost Benefit studies (Correct Answer)**
- (C) Programme Evaluation studies
- (D) None of the above

Question No.50 (Question Id - 28)

Given below are two statements :

Statement I:

Reflexivity is reflecting on the data collected and validating it.

Statement II:

Reflexivity is the process of becoming self-aware an ongoing critique and critical reflection of his or her own biases.

In the light of the above statements, choose the **correct** answer from the options given below :

- (A) Both **Statement I** and **Statement II** are true
- (B) Both **Statement I** and **Statement II** are false
- (C) **Statement I** is correct but **Statement II** is false
- (D) **Statement I is incorrect but Statement II is true (Correct Answer)**

SECTION 2 - Social Science - Humanities - Allied or Applied Disciplines

Question No.1 (Question Id - 55)

Given below are two statements :

Statement I:

The incident or relative frequency for many diseases and death rates varies directly with social class and ethnicity.

Statement II:

Power and economic differential among societies do not have profound health consequences.

In the light of the above statements, choose the **correct** answer from the options given below :

- (A) Both **Statement I** and **Statement II** are true
- (B) Both **Statement I** and **Statement II** are false
- (C) **Statement I is correct but Statement II is false (Correct Answer)**
- (D) **Statement I** is incorrect but **Statement II** is true

Question No.2 (Question Id - 74)

The AGRAHARAM is a cluster of habitations and the centre of social life for the Brahmins. Which of the following sociological studies elaborates on this ?

- (A) 'Indian Village' by S.C. Dube
- (B) **'Caste, Class and Power' by Andre Beteille (Correct Answer)**
- (C) 'Family and Kinship : A Study of the Pandits of Rural Kashmir' by T.N. Madan
- (D) 'India's Villages' by M.N. Srinivas

Question No.3 (Question Id - 54)

The study of 'MEANING' is :

- (A) Hermeneutics
- (B) Hieroglyphics
- (C) **Semantics (Correct Answer)**
- (D) Phoneme

Question No.4 (Question Id - 83)

The author of '*The Sociological Imagination*' is :

- (A) Herbert Spencer

- (B) **C.W. Mills (Correct Answer)**
 (C) E. Durkheim
 (D) Auguste Comte

Question No.5 (Question Id - 88)

The concept of 'Sick Role' was put forth by :

- (A) E. Goffman
 (B) R. Merton
 (C) H. Garfinkel
 (D) **T. Parsons (Correct Answer)**

Question No.6 (Question Id - 69)

Match **List - I** with **List - II** :

List - I	List - II
A. Sigmund Freud	I. Hierarchy of needs
B. Erich Fromm	II. Child Development
C. Abraham Maslow	III. The Unconscious
D. Elizabeth Hurlock	IV. Freedom

Choose the **correct** answer from the options given below :

- (A) A - II, B - III, C - IV, D - I
 (B) A - I, B - II, C - III, D - IV
 (C) **A - III, B - IV, C - I, D - II (Correct Answer)**
 (D) A - IV, B - I, C - II, D - III

Question No.7 (Question Id - 82)

The author of 'Social Stratification and Change in India' is :

- (A) Andre Beteille
 (B) Dipankar Gupta
 (C) Patricia Uberoi
 (D) **Yogendra Singh (Correct Answer)**

Question No.8 (Question Id - 75)

W.M. Davis is a founding geographer who worked on landforms extensively. Which of the following works is NOT associated with his body of work ?

- A. Geographic classification
 B. Physical Geography of the Lands
 C. The eye of reason - Darwin's development during the *Beagle voyage*
 D. The Relations of the earth sciences in view of their progress in the Nineteenth Century
 E. Social ecology of the village

Choose the **correct** answer from the options given below :

- (A) A, B, C, D, E
 (B) A, B, C, E
 (C) A, B, D, E
 (D) **A, B, C, D (Correct Answer)**

Question No.9 (Question Id - 63)

The first formal National Health Policy was formulated in the year :

- (A) 1973
 (B) **1983 (Correct Answer)**
 (C) 1993
 (D) 1963

Question No.10 (Question Id - 57)

Given below are two statements :

Statement I:

Sociobiologists believe that human behavior is determined by biology in the form of genetic inheritance.

Statement II:

The Darwinian 'Survival of fittest' metaphor said to justify the existing distribution of wealth, power and sexual and racial advantage as being inevitable and unchangeable, because of natural selection.

In the light of the above statements, choose the **correct** answer from the options given below :

- (A) **Both Statement I and Statement II are true (Correct Answer)**
 (B) Both **Statement I** and **Statement II** are false
 (C) **Statement I** is correct but **Statement II** is false
 (D) **Statement I** is incorrect but **Statement II** is true

Question No.11 (Question Id - 71)

Scavenging Conditions Enquiry Committee Report : India is a seminal work associated with the lives of workers engaged in unclean jobs. Which of the following is credited to have prepared it ?

- (A) Edwin Chadwick
 (B) **N.R. Malkani (Correct Answer)**
 (C) Joseph Bhore
 (D) B.P. Pandya

Question No.12 (Question Id - 59)

Match **List - I** with **List - II** :

List - I	List - II
A. Infectious Disease	I. Parkinson's Disease
B. Disorder of Nervous System	II. Bronchiectasis
C. Diseases of Cardiovascular	III. Leprosy
D. Chest Disease	IV. Cardiomyopathies

Choose the **correct** answer from the options given below :

- (A) A - III, B - II, C - IV, D - I
 (B) **A - III, B - I, C - IV, D - II (Correct Answer)**
 (C) A - II, B - I, C - IV, D - III
 (D) A - III, B - IV, C - II, D - I

Question No.13 (Question Id - 67)

Accredited Social Health Activist (ASHA) is a voluntary community health worker in India under National Rural Health Mission for every village/large habitat (1000 population) usually a female chosen by and accountable to Panchayat for the following duties :

- A. A bridge between the ANM (auxiliary nurse mid-wives) and the village
 B. Electoral campaign
 C. Promoting construction of household toilets
 D. Universal Immunization
 E. Survey

Choose the **correct** answer from the options given below :

- (A) **A, C, D Only (Correct Answer)**
 (B) A, B, C, D, E
 (C) B, D, E Only
 (D) C, D, E Only

Question No.14 (Question Id - 79)

Which one of the following Biotech Company is developing a SARS – COV2 vaccine based on the mRNA platform ?

- (A) Bharat Biotech
- (B) Zydus Cadila
- (C) **Modera (Correct Answer)**
- (D) Astra Zeneca

Question No.15 (Question Id - 61)

Match **List - I** with **List - II** :

List - I	List - II
A. Polyandry	I. A man marrying to two or more sisters
B. Sororal Polygyny	II. Marrying one person after another
C. Monogamy	III. Marriage of one woman to more than one man
D. Serial Monogamy	IV. Marriage of one man to one woman at time

Choose the **correct** answer from the options given below :

- (A) A - II, B - I, C - IV, D - III
- (B) A - I, B - II, C - IV, D - III
- (C) A - III, B - I, C - II, D - IV
- (D) **A - III, B - I, C - IV, D - II (Correct Answer)**

Question No.16 (Question Id - 70)

Sripuram is situated on the north bank of the Kaveri, in the Tanjore Taluk of Tanjore District. Which of the following sociological studies was done here ?

- (A) **'Caste, Class and Power' by Andre Beteille (Correct Answer)**
- (B) 'Village on the Border' by Ronald Frankenberg
- (C) 'Indian Village' by S.C. Dube
- (D) 'India's Villages' by M.N. Srinivas

Question No.17 (Question Id - 93)

Name the theorist whose method of critical consciousness raising among 'the oppressed' has been particularly influential in health education.

- (A) Thomas Malthus
- (B) **Paulo Freire (Correct Answer)**
- (C) Paul Farmer
- (D) Amartya Sen

Question No.18 (Question Id - 62)

"Areas of Medicine that are generally outside current accepted medical thought, scientific or university teaching" can be defined as :

- (A) Allopathic Medicine
- (B) Western Medicine
- (C) **Alternative (Complementary) Medicine (Correct Answer)**
- (D) Evidence based Medicine

Question No.19 (Question Id - 90)

Percentage of people in different age categories who are not economically self-supporting :

- (A) Unemployed
- (B) Employment Ratio
- (C) **Dependency Ratio (Correct Answer)**
- (D) None of the above

Question No.20 (Question Id - 84)

According to Freud, the part of the self that oversees the personality :

- (A) Id

- (B) Super Ego
- (C) **Ego (Correct Answer)**
- (D) None of the above

Question No.21 (Question Id - 52)

According to 2011 census the most populous tribe is :

- (A) Ghond
- (B) Birhor
- (C) **Bhil (Correct Answer)**
- (D) Baigas

Question No.22 (Question Id - 95)

“The Structure of Scientific Revolution”, a seminal book published in 1962 on history and philosophy of science was authored by :

- (A) K.R. Popper
- (B) Robert I. Watson
- (C) I.P. Pavlov
- (D) **Thomas Kuhn (Correct Answer)**

Question No.23 (Question Id - 51)

One of the following is a measure of social security and health insurance, which provides for certain cash and medical benefits to industrial employees in case of sickness, maternity and employment injury :

- (A) RSBY
- (B) **ESI (Correct Answer)**
- (C) Arogyasree
- (D) CGHS

Question No.24 (Question Id - 87)

Conditions in which people do not have equal access to social rewards such as money, power and prestige :

- (A) Culture
- (B) Inequity
- (C) **Inequality (Correct Answer)**
- (D) None of the above

Question No.25 (Question Id - 73)

As per the Sample Registration System 2017, the highest birth rate was observed in state ‘X’ at 26.4 and the lowest in Union Territory ‘Y’ at 11.4. Name the ‘X’ and ‘Y’ from the following :

- (A) Gujarat and Daman and Diu
- (B) **Bihar and Andaman and Nicobar Islands (Correct Answer)**
- (C) Madhya Pradesh and Lakshadweep Islands
- (D) Haryana and Delhi

Question No.26 (Question Id - 66)

Given below are two statements :

Statement I:

Social Epidemiology is the study of relations between social factors; and health and disease.

Statement II:

Social Epidemiology is the investigation of social determinants of population distributions of health, disease and wellbeing and also treating such determinants.

In the light of the above statements, choose the **most appropriate** answer from the options given below :

- (A) **Both Statement I and Statement II are correct (Correct Answer)**
 (B) Both **Statement I** and **Statement II** are incorrect
 (C) **Statement I** is correct but **Statement II** is incorrect
 (D) **Statement I** is incorrect but **Statement II** is correct

Question No.27 (Question Id - 58)

Given below are two statements :

Statement I:

Modernity is a term describing the particular attributes of modern societies.

Statement II:

Post modernity is a term usually contrasted with modernity, which designates a new condition which contemporary advanced industrial societies are alleged to have reached.

In the light of the above statements, choose the **correct** answer from the options given below :

- (A) **Both Statement I and Statement II are true (Correct Answer)**
 (B) Both **Statement I** and **Statement II** are false
 (C) **Statement I** is correct but **Statement II** is false
 (D) **Statement I** is incorrect but **Statement II** is true

Question No.28 (Question Id - 78)

Given below are two statements :

Statement I:

Edwin Chadwick (1800-1890) used maps and statistics to establish the link between unsanitary living conditions and the poor health of workers in Victorian England.

Statement II:

Edwin Chadwick's work sparked a series of reforms that led to the creation of modern public health system.

In the light of the above statements, choose the **correct** answer from the options given below :

- (A) **Both Statement I and Statement II are true (Correct Answer)**
 (B) Both **Statement I** and **Statement II** are false
 (C) **Statement I** is correct but **Statement II** is false
 (D) **Statement I** is incorrect but **Statement II** is true

Question No.29 (Question Id - 81)

The author of 'Rethinking Democracy' is :

- (A) Ashis Nandy
 (B) Yogendra Yadav
 (C) **Rajni Kothari (Correct Answer)**
 (D) Paul Brass

Question No.30 (Question Id - 99)

Match **List - I** with **List - II** :

List - I	List - II
A. Adam Smith	I. Principles of Economics
B. Alfred Marshall	II. Essays on the nature and significance of economics
C. Lionel Robbins	III. Economics, An Introductory Analysis
D. Paul A. Samuelson	IV. An Enquiry into the nature and causes of the Wealth of Nations

Choose the **correct** answer from the options given below:

- (A) A - I, B - III, C - IV, D - II
 (B) A - III, B - II, C - I, D - IV

(C) **A - IV, B - I, C - II, D - III (Correct Answer)**

(D) A - II, B - IV, C - III, D - I

Question No.31 (Question Id - 60)

Match **List - I** with **List - II** :

List - I	List - II
A. The Mind of Primitive Man	I. Clifford Geertz
B. The Interpretation of Cultures	II. F. Boas
C. Beyond Cultures	III. B. Malinowski
D. Argonauts of Western Pacific	IV. Edward T Hall

Choose the **correct** answer from the options given below :

(A) A - II, B - III, C - IV, D - I

(B) **A - II, B - I, C - IV, D - III (Correct Answer)**

(C) A - I, B - II, C - III, D - IV

(D) A - II, B - III, C - I, D - IV

Question No.32 (Question Id - 56)

Given below are two statements :

Statement I:

Disasters are also social problems, which have social causes and possible solutions.

Statement II:

Societies with individual rather than shared property rights are more likely to suffer famine.

In the light of the above statements, choose the **correct** answer from the options given below :

(A) **Both Statement I and Statement II are true (Correct Answer)**

(B) Both **Statement I** and **Statement II** are false

(C) **Statement I** is correct but **Statement II** is false

(D) **Statement I** is incorrect but **Statement II** is true

Question No.33 (Question Id - 80)

Political conflicts seem to have followed more closely the cleavages of caste than those of class. Which of the following is/are least correct ?

A. Division of society into Brahmins and Non-Brahmins and Adi-Dravidas has been of immediate relevance in mobilizing political support than its division into landowners, tenants, and agricultural labourers

B. Conflicts between caste subsume within them conflicts between classes, since there is a considerable measure of overlap between the two systems

C. Political power remain independent of society and its organization

D. Division of society is a social reality

E. All the above

Choose the **most appropriate** answer from the options given below :

(A) **C Only (Correct Answer)**

(B) D Only

(C) B Only

(D) E Only

Question No.34 (Question Id - 92)

The Planning Commission set up in 1950 was replaced by which body in 2015 ?

(A) The National Development Council

(B) The National Planning Mission

(C) **The Niti (National Institute for Transforming India) Aayog (Correct Answer)**

(D) Planning Committee of India

Question No.35 (Question Id - 97)

Individuals belief about their ability to carry out certain behaviours was termed self-efficacy by psychologist :

- (A) Heider, 1958
(B) Engel, 1977
(C) **Bandura, 1977 (Correct Answer)**
(D) Rosenstock, 1977

Question No.36 (Question Id - 96)

The Bio-psychosocial model of health that states that health and illness arise from the interplay of biological, psychological and social functions was proposed by :

- (A) John B. Watson
(B) Erich Fromm
(C) **George Engel (Correct Answer)**
(D) Sigmund Freud

Question No.37 (Question Id - 98)

Match **List - I** with **List - II** :

List - I	List - II
A. Cartesian interactionism (Descartes, 1961)	I. A single underlying mental or spiritual reality assumed.
B. Subjective idealism (Berkeley, 1710)	II. There are neither minds nor bodies as far as can be known : only ideas resulting from sense impressions exist.
C. Materialism (Democritees, 400 BC)	III. Two separate and interacting processes assumed.
D. Phenomenalism (Hume, 1740)	IV. A single underlying physical reality assumed.

Choose the **correct** answer from the options given below :

- (A) A - IV, B - II, C - III, D - I
(B) **A - III, B - I, C - IV, D - II (Correct Answer)**
(C) A - I, B - III, C - II, D - IV
(D) A - II, B - IV, C - I, D - III

Question No.38 (Question Id - 100)

In India's healthcare system, one sub-centre for hilly areas covers a population of :

- (A) **3000 (Correct Answer)**
(B) 5000
(C) 1000
(D) 4000

Question No.39 (Question Id - 94)

The three fold typology of liberal, conservative and state democratic welfare regime was propounded by :

- (A) Marshall, T.H.
(B) Rajni Kothari
(C) **Esping-Anderson, G. (Correct Answer)**
(D) Titmus, R.M.

Question No.40 (Question Id - 89)

Discrimination exercised by one or more age groups commonly applied to the elderly is referred as :

- (A) Sexism
(B) Casteism

(C) **Ageism (Correct Answer)**

(D) None of the above

Question No.41 (Question Id - 85)

Status based on inherited traits and therefore assigned at birth is :

(A) Achieved Status

(B) **Ascribed Status (Correct Answer)**

(C) Acquired Status

(D) None of the above

Question No.42 (Question Id - 64)

John Snow (1813-1858) was an English Physician, anesthetist and epidemiologist. In 1854, Snow conducted an epidemiological study on the mode of transmission :

(A) Tuberculosis

(B) Scarlet Fever

(C) **Cholera (Correct Answer)**

(D) Typhoid

Question No.43 (Question Id - 68)

The reasons for high disease burden in India are :

A. Poor economy of the country

B. Mal-distribution of countries resources

C. Poor governance and management to utilize resources appropriately

D. Poor people participation

E. All of the above

Choose the **correct** answer from the options given below :

(A) A and B Only

(B) **E Only (Correct Answer)**

(C) C and D Only

(D) A and C Only

Question No.44 (Question Id - 86)

Social groups with unequal access to wealth, power and prestige :

(A) Caste

(B) Class

(C) Gender

(D) **All of the above (Correct Answer)**

Question No.45 (Question Id - 72)

Adam Smith is known as the 'Father of Modern Economics'. His most famous work is :

(A) **An Enquiry into the nature and causes of wealth of Nations (Correct Answer)**

(B) Causes of material Welfare

(C) Bread and Butter Science

(D) None of the above

Question No.46 (Question Id - 53)

One of the following is NOT shifting cultivation :

(A) Fire and fallow cultivation

(B) **Step Cultivation (Correct Answer)**

(C) Slash and burn

(D) Jhum Cultivation

Question No.47 (Question Id - 91)

The concept of Absolute Poverty refers to :

(A) Lack of availability of basic needs for a healthy living

- (B) Low Income levels
- (C) Deprivation
- (D) **All of the above (Correct Answer)**

Question No.48 (Question Id - 77)

Given below are two statements :

Statement I:

The Sustainable Development Goals were adopted in September 2019 as part of the resolution '*Transforming our world*'- the 2050 Agenda for Sustainable Development.

Statement II:

India is committed to achieve the 17 goals and the 169 associated targets which comprehensively cover social economic and environmental dimensions of development and focus on ending poverty in all its forms and dimensions by 2030.

In the light of the above statements, choose the **correct** answer from the options given below :

- (A) Both **Statement I** and **Statement II** are true
- (B) Both **Statement I** and **Statement II** are false
- (C) **Statement I** is correct but **Statement II** is false
- (D) **Statement I is incorrect but Statement II is true (Correct Answer)**

Question No.49 (Question Id - 76)

Given below are two statements :

Statement I:

Today, political power, whether in the village or outside it, is not as closely tied to ownership of land as it was in the past.

Statement II:

New basis of power have emerged which are, to some extent, independent of caste and class.

In the light of the above statements, choose the **most appropriate** answer from the options given below :

- (A) **Both Statement I and Statement II are correct (Correct Answer)**
- (B) Both **Statement I** and **Statement II** are incorrect
- (C) **Statement I** is correct but **Statement II** is incorrect
- (D) **Statement I** is incorrect but **Statement II** is correct

Question No.50 (Question Id - 65)

Given below are two statements, one is labeled as **Assertion (A)** and the other is labeled as **Reason (R)**.

Assertion A :

To prevent one death due to a motor vehicle accident, hundreds of people must wear seat belts. Similarly to reduce the death rate from lung cancer, people must refrain from or cease smoking.

Reason R :

In order to bring large benefits to the community, preventive measures are adopted, which cause inconvenience to most participating persons. This is also known as prevention paradox.

In the light of the above statements, choose the **most appropriate** answer from the options given below :

- (A) **Both A and R are correct and R is the correct explanation of A (Correct Answer)**
- (B) Both **A** and **R** are correct and **R** is NOT the correct explanation of **A**
- (C) **A** is correct but **R** is not correct
- (D) **A** is not correct but **R** is correct

SECTION 3 - Medical and Allied - Applied Discipline

Question No.1 (Question Id - 114)

Which of the following is NOT true of Measles ?

- (A) **Not infectious in pro-dromal stage (Correct Answer)**
- (B) Infection confers life-long immunity
- (C) Only one strain causes infection
- (D) High secondary attack rate

Question No.2 (Question Id - 110)

All of the following are suggestive of asbestosis except :

- (A) **Occurs within five years of exposure (Correct Answer)**
- (B) The disease once established, progresses even after removal of contacts
- (C) Can lead to peritoneal mesothelioma
- (D) Sputum contains asbestos bodies

Question No.3 (Question Id - 144)

Which of the following is known as the medical discovery of 20th century ?

- (A) Penicillin
- (B) Small pox vaccine
- (C) **ORS (Correct Answer)**
- (D) Zidovudine

Question No.4 (Question Id - 143)

Effective literacy rate is calculated from :

- (A) Those who have completed 15 years schooling
- (B) Total population
- (C) **Those above the age of 7 years (Correct Answer)**
- (D) Those who have completed 10 years schooling

Question No.5 (Question Id - 132)

Programme Evaluation and Review Technique (PERT) is :

- (A) A method of evaluating students of a programme of study
- (B) A method of evaluating a health programme strategy
- (C) A method of health policy formulation
- (D) **A method of network analysis for planning implementation (Correct Answer)**

Question No.6 (Question Id - 117)

The most important feature to diagnose severe pneumonia :

- (A) **Chest indrawing (Correct Answer)**
- (B) Fast breathing
- (C) Nasal flaring
- (D) Cyanosis

Question No.7 (Question Id - 122)

Which of the following countries are free of Rabies ?

- A. Cyprus
- B. India
- C. Malta
- D. New Zealand

Choose the **most appropriate** answer from the options given below :

- (A) A, C Only

- (B) A, D Only
 (C) **A, C, D Only (Correct Answer)**
 (D) C, D Only

Question No.8 (Question Id - 109)

Which of the following phases of Disaster management cycle are arranged in a logical sequence ?

- (A) Disaster impact - mitigation- rehabilitation - response
 (B) **Disaster impact - response - rehabilitation - mitigation (Correct Answer)**
 (C) Rehabilitation - response - disaster impact - mitigation
 (D) Response - disaster impact - rehabilitation - mitigation

Question No.9 (Question Id - 150)

Match List - I with List - II :

List - I	List - II
(Panchayati Raj Institution)	(Level of Institution)
A. Panchayat	I. Village level
B. Panchayat Samiti	II. District level
C. Zila Parishad	III. Block level

Choose the **correct** answer from the options given below :

- (A) A - III, B - II, C - I
 (B) A - II, B - III, C - I
 (C) **A - I, B - III, C - II (Correct Answer)**
 (D) A - I, B - II, C - III

Question No.10 (Question Id - 119)

Magnesium chloride is used in the Oral Polio Vaccine (OPV) as a :

- (A) Vehicle
 (B) **Stabilizer (Correct Answer)**
 (C) Preservative
 (D) Adjuvant

Question No.11 (Question Id - 124)

Given below are two statements, one is labeled as **Assertion A** and the other is labeled as **Reason R** :

Assertion A :

Breast cancer is by far the most frequent cancer among women.

Reason R :

Breast cancer is uncommon below the age of 35; the incidence increasing rapidly between the ages of 35 and 50.

In the light of the above statements, choose the **most appropriate** answer from the options given below :

- (A) Both **A** and **R** are correct and **R** is the correct explanation of **A**
 (B) **Both A and R are correct but R is NOT the correct explanation of A (Correct Answer)**
 (C) **A** is correct but **R** is not correct
 (D) **A** is not correct but **R** is correct

Question No.12 (Question Id - 149)

Match List - I with List - II :

List - I	List - II
(Nutrient)	(Source)
A. Richest source of Vitamin A and D	I. Ragi
B. Richest source of Vitamin C	II. Halibut liver oil

C. Richest source of iron among nuts	III. Pistachio
D. Calcium	IV. Amla (Indian gooseberry)

Choose the **correct** answer from the options given below :

- (A) A - II, B - IV, C - I, D - III
 (B) **A - II, B - IV, C - III, D - I (Correct Answer)**
 (C) A - III, B - IV, C - II, D - I
 (D) A - III, B - I, C - II, D - IV

Question No.13 (Question Id - 141)

Ottawa Charter of health promotion incorporates all of the following key action areas except :

- (A) Build healthy public policy
 (B) Strengthen community action for health
 (C) Build social security system
 (D) **Reorient health services (Correct Answer)**

Question No.14 (Question Id - 126)

In a given population diastolic blood pressure was found to have a mean of 82.5 mm and standard deviation of 2.5. What percent of the population will have diastolic blood pressure above 80 mm ?

- (A) **84% (Correct Answer)**
 (B) 80%
 (C) 16%
 (D) 95%

Question No.15 (Question Id - 127)

Standardisation of mortality rates is necessary for :

- (A) Comparisons across similar population groups
 (B) **Comparisons across diverse population groups (Correct Answer)**
 (C) Analysis of standard error of mean mortality rates
 (D) Analysis of standard deviation from the mean mortality rates

Question No.16 (Question Id - 107)

Match the pairs :

Disease	Cause
A. Siderosis	I. Iron dust
B. Byssinosis	II. Mollasses
C. Bagassosis	III. Cotton fibres
D. Farmers lung	IV. Mouldy hay

Choose the **correct** answer from the options given below :

- (A) A - I, B - II, C - IV, D - III
 (B) A - I, B - IV, C - II, D - III
 (C) A - II, B - I, C - III, D - IV
 (D) **A - I, B - III, C - II, D - IV (Correct Answer)**

Question No.17 (Question Id - 146)

Match List - I with List - II :

List - I	List - II
(Historical personality)	(Recognition as)
A. Sushruta	I. Hindu God of Medicine
B. Dhanvantari	II. Father of Public Health
C. Hippocrates	III. Father of Medicine
D. Cholera	IV. Father of Indian surgery

Choose the **correct** answer from the options given below :

- (A) A - III, B - IV, C - II, D - I
 (B) A - IV, B - III, C - II, D - I
 (C) **A - IV, B - I, C - III, D - II (Correct Answer)**
 (D) A - I, B - IV, C - II, D - III

Question No.18 (Question Id - 102)

Match the pairs of Triage category :

A. Green	I. dead
B. Black	II. minor injuries
C. Red	III. immediate intervention needed
D. Yellow	IV. life saving surgery in next 24 hours

Choose the **correct** answer from the options given below :

- (A) A - IV, B - III, C - II, D - I
 (B) A - III, B - I, C - II, D - IV
 (C) **A - II, B - I, C - III, D - IV (Correct Answer)**
 (D) A - III, B - IV, C - II, D - I

Question No.19 (Question Id - 148)

Match **List - I** with **List - II** :

List - I	List - II
(New born category)	(Characteristic)
A. Pre-term babies	I. > 42 weeks (>294 days)
B. Post-term babies	II. < 37 weeks (< 259 days)
C. Term babies	III. 37-42 weeks (259-293 days)

Choose the **correct** answer from the options given below :

- (A) **A - II, B - I, C - III (Correct Answer)**
 (B) A - III, B - II, C - I
 (C) A - II, B - III, C - I
 (D) A - III, B - I, C - II

Question No.20 (Question Id - 120)

A clinical nurse was diagnosed to have HBeAg and HBsAg in her serum; she is likely to be suffering from :

- (A) Chronic Hepatitis B
 (B) Hepatitis B and Hepatitis E co-infection
 (C) Recovering from Hepatitis B
 (D) **Active and infectious Hepatitis B disease (Correct Answer)**

Question No.21 (Question Id - 108)

Live attenuated vaccines include :

- (A) Measles, Mumps, Hepatitis-B, Hib
 (B) Measles, Mumps, BCG, Plague
 (C) **Measles, Mumps, BCG, Varicella (Correct Answer)**
 (D) Measles, Rubella, Hepatitis-B, JE

Question No.22 (Question Id - 106)

Match the pairs :

Vaccine	Type
A. Rotavirus	I. Polysaccharides
B. Japanese Encephalitis	II. Toxoid/protein
C. Anthrax	III. Killed organism
D. Hib	IV. Live attenuated

Choose the **correct** answer from the options given below :

- (A) A - III, B - IV, C - II, D - I
 (B) A - III, B - IV, C - I, D - II
 (C) A - IV, B - III, C - I, D - II
 (D) **A - IV, B - III, C - II, D - I (Correct Answer)**

Question No.23 (Question Id - 115)

Risk of the damage of foetus by maternal rubella is maximum if mother gets infected in :

- (A) 32 - 36 weeks of pregnancy
 (B) **6 - 12 weeks of pregnancy (Correct Answer)**
 (C) 12 - 14 weeks of pregnancy
 (D) 2 - 4 weeks of pregnancy

Question No.24 (Question Id - 135)

Eco-social epidemiology :

- A. Studies only socio-economic status and its impact on health
 B. Studies individual to societal determinants of health
 C. Studies ecological and social processes of disease causation
 D. Studies health seeking behavior of communities

Choose the **most appropriate** answer from the options given below :

- (A) A and D describe Eco-social Epidemiology best
 (B) **B and C describe Eco-social Epidemiology best (Correct Answer)**
 (C) A and C describe Eco-social Epidemiology best
 (D) C and D describe Eco-social Epidemiology best

Question No.25 (Question Id - 136)

Match **List - I** with **List - II** :

List - I	List - II
A. Natural History	I. Always a description of long-term changes
B. Causality	II. Requires establishing temporal relationships
C. Secular trends	III. Locate cases at a point of time
D. Spot maps	IV. Can be a description of short or long-term changes

Choose the **correct** answer from the options given below :

- (A) A - I, B - II, C - III, D - IV
 (B) A - I, B - III, C - IV, D - II
 (C) **A - IV, B - II, C - I, D - III (Correct Answer)**
 (D) A - III, B - IV, C - II, D - I

Question No.26 (Question Id - 139)

All are included in benefits of socialization of medicine except :

- (A) It eliminates competition among physicians in search of clients
 (B) It ensures social equity and universal coverage
 (C) It provides free medical care supported by the state
 (D) **Good quality treatment is provided to the patients without any cost to them**

(Correct Answer)

Question No.27 (Question Id - 113)

Which of the following RTI/STI kit colour codes are wrongly matched ?

- (A) Kit 1 - Grey

- (B) Kit 2 - Green
(C) Kit 3 - White
(D) **Kit 4 - Yellow (Correct Answer)**

Question No.28 (Question Id - 133)

If 'p' value for a 2-tailed test is computed to be .05, what is the probability of the findings being due to chance variation ?

- (A) **+ 2.5% or - 2.5% (Correct Answer)**
(B) + 5% or - 5%
(C) + 0.05% or - 0.05%
(D) + 25% or - 25%

Question No.29 (Question Id - 131)

Epidemiology is :

- (A) The same as clinical medicine applied at population level
(B) A part of Biostatistics
(C) **An inter-disciplinary field of enquiry (Correct Answer)**
(D) Not related to health planning

Question No.30 (Question Id - 101)

Arrange the following milestones of programmatic response to malaria in chronological order :

- A. National Malaria Control Program
B. National Malaria Eradication Program
C. National framework for Malaria elimination
D. National vectorborne diseases control program
E. Enhanced Malaria Control Project

Choose the **correct** answer from the options given below :

- (A) D, A, C, E, B
(B) A, D, E, C, B
(C) E, D, A, B, C
(D) **A, B, E, D, C (Correct Answer)**

Question No.31 (Question Id - 121)

Which of the following is true about the epidemiology of influenza ?

- A. Pandemics are rare
B. Asymptomatic cases are rare
C. Incubation period is 18-72 hours
D. Affects all ages and sexes
E. There is no animal reservoir

Choose the most appropriate answer from the options given below :

- (A) **C, D Only (Correct Answer)**
(B) A, B, E Only
(C) B, C, D Only
(D) B, C, D, E Only

Question No.32 (Question Id - 128)

The 'epidemic curve' is :

- (A) A graph of the incidence of the disease in the epidemic under study and in previous years.



- (B) A graph of the prevalence rate of the disease during the epidemic under study and previous years.
- (C) **A graph of the time distribution of cases during the epidemic under study.**
(Correct Answer)
- (D) A graph of similar epidemics in various countries.

Question No.33 (Question Id - 138)

Given below are two statements: one is labeled as **Assertion A** and the other as **Reason R**.

Assertion A :

Mass screening is not a cost-effective measure at population level for many diseases.

Reason R :

Mass screening can lead to a high proportion of false positives and unnecessary treatment.

In the light of the above statements, choose the **most appropriate** answer from the options given below :

- (A) **Both A and R are correct and R is the correct explanation of A (Correct Answer)**
- (B) Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
- (C) **A** is correct but **R** is not correct
- (D) **A** is not correct but **R** is correct

Question No.34 (Question Id - 134)

Place the following in correct sequence the steps of a health planning cycle :

- A. Situational analysis
- B. Analysing optional programme designs
- C. Implementation
- D. Priority setting
- E. Evaluation

Choose the **correct** answer from the options given below :

- (A) A, B, C, D, E
- (B) **A, D, B, C, E (Correct Answer)**
- (C) D, E, A, B, C
- (D) D, B, A, E, C

Question No.35 (Question Id - 112)

Which one of the following is true for mid-day meal given in school ?

Calories Protein

- (A) **1/3 1/2 (Correct Answer)**
- (B) 1/3 1/3
- (C) 1/2 1/2
- (D) 1/2 1/3

Question No.36 (Question Id - 145)

At PHC level, a woman who complains of spotting following IUCD insertion should be advised :

- (A) Antibiotic and observation

- (B) Removal of IUCD
 (C) **Iron supplements and observation (Correct Answer)**
 (D) Analgesic and observation

Question No.37 (Question Id - 111)

All of the following are true about occupational lead poisoning except :

- (A) Inhalation is the most common mode of absorption
 (B) Lead in blood and urine provide quantitative indicators of exposure
 (C) **Lead poisoning is not a notifiable disease (Correct Answer)**
 (D) Basophilic stippling is a sensitive parameter of haematological response

Question No.38 (Question Id - 147)

Use of oral contraceptive confers additional protection against :

- A. Fibroadenoma
 B. Ectopic pregnancy
 C. Ovarian cysts and iron deficiency anemia

Choose the **correct** answer from the options given below :

- (A) A and B Only
 (B) A and C Only
 (C) B and C Only
 (D) **A, B and C (Correct Answer)**

Question No.39 (Question Id - 142)

Demographic process **does not** include :

- (A) Mortality
 (B) **Morbidity (Correct Answer)**
 (C) Social mobility
 (D) Fertility

Question No.40 (Question Id - 104)

Arrange the following steps of sewage treatment in sequence :

- A. Grit chamber
 B. Primary sedimentation tank
 C. Screen
 D. Biological treatment
 E. Final sedimentation tank

Choose the **correct** answer from the options given below

- (A) **C, A, B, D, E (Correct Answer)**
 (B) A, C, B, E, D
 (C) B, A, C, D, E
 (D) C, B, A, D, E

Question No.41 (Question Id - 103)

Match the Pairs :

Pathogen	Type
A. <i>Treponema pallidum</i>	I. Protozoal agent
B. <i>Molluscum contagiosum</i>	I. Ectoparasite
C. <i>Phthirus pubis</i>	III. Viral agent

D. *Trichomonas vaginalis* IV. Bacterial agent

Choose the **correct** answer from the options given below :

- (A) A - I, B - II, C - III, D - IV
- (B) A - III, B - II, C - I, D - IV
- (C) **A - IV, B - III, C - II, D - I (Correct Answer)**
- (D) A - III, B - I, C - II, D - IV

Question No.42 (Question Id - 125)

Match **List - I** with **List - II** :

List I	List II
(Disease)	(Incubation Period)
A. Kyasanur Forest Disease	I. 4 - 7 days
B. Chikungunya Fever	II. 2 - 7 days
C. Bubonic Plague	III. 3 - 8 days
D. Human Salmonellosis	IV. 6 - 72 hours

Choose the **correct** answer from the options given below :

- (A) A - I, B - II, C - III, D - IV
- (B) **A - III, B - I, C - II, D - IV (Correct Answer)**
- (C) A - IV, B - III, C - I, D - II
- (D) A - II, B - III, C - I, D - IV

Question No.43 (Question Id - 118)

Which of the following is true of cause of inadequate treatment of TB ?

- (A) Stock-outs or delivery disruptions
- (B) Non-compliance with guidelines
- (C) Inadequate training of health staff
- (D) **All of the above (Correct Answer)**

Question No.44 (Question Id - 129)

The 'paradox of sampling' is that the sample can be misleading if it is not representative of the population, and how can we tell if it is representative or not without testing the whole population ? How is this paradox dealt with by biostatistics ?

- (A) By choice of appropriate and rigorously applied sampling methodology
- (B) By exercising caution in the interpretation of findings and avoiding over-generalisation
- (C) **Both the above (Correct Answer)**
- (D) None of the above

Question No.45 (Question Id - 123)

Given below are two statements, one is labeled as **Assertion A** and the other is labeled as **Reason R** :

Assertion A :

The burden of oral diseases can be reduced through public health interventions.

Reason R :

These include well-balanced diets, reducing smoking and use of protective equipment to reduce risk of facial injuries.

In the light of the above statements, choose the **most appropriate** answer from the options given below :

- (A) **Both A and R are correct and R is the correct explanation of A**

(Correct Answer)

- (B) Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
- (C) **A** is correct but **R** is not correct
- (D) **A** is not correct but **R** is correct

Question No.46 (Question Id - 137)

Given below are two statements :

Statement I :

A cohort study design has the population as its unit of study.

Statement II :

A cohort study cannot provide data for estimating incidence rates of a disease.

In the light of the above statements, choose the **most appropriate** answer from the options given below :

- (A) Both **Statement I** and **Statement II** are correct
- (B) **Both Statement I and Statement II are incorrect (Correct Answer)**
- (C) **Statement I** is correct but **Statement II** is incorrect
- (D) **Statement I** is incorrect but **Statement II** is correct

Question No.47 (Question Id - 105)

Match the pairs :

Insecticide	Type
A. Fenthion	I. Organo-phosphorus compounds
B. DDT	II. Organo-chlorine compounds
C. Bioresmethrin	III. Synthetic pyrethroids
D. Nicotine	IV. Natural poison

Choose the **correct** answer from the options given below :

- (A) **A - I, B - II, C - III, D - IV (Correct Answer)**
- (B) A - II, B - I, C - IV, D - III
- (C) A - II, B - I, C - III, D - IV
- (D) A - I, B - II, C - IV, D -III

Question No.48 (Question Id - 140)

The 'First True Epidemiologist' recognized in history is :

- (A) John Snow
- (B) **Hippocrates (Correct Answer)**
- (C) James Lind
- (D) Joseph Lister

Question No.49 (Question Id - 130)

Histogram can be used to present :

- (A) **Quantitative data of a group of patients (Correct Answer)**
- (B) Qualitative data of a group of patients
- (C) Data collected on an ordinal scale
- (D) Nominal data of a group of patients

Question No.50 (Question Id - 116)

The usual incubation period of Pertussis is :

- (A) **7 - 14 days (Correct Answer)**
- (B) Less than 2 days
- (C) 3 - 5 days
- (D) 21 - 28 days

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