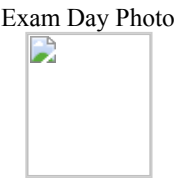


Roll No:  
Application No:  
Name:  
Exam Date: 08-Oct-2020  
Exam Time: 15:00-18:00  
Examination: 1. Course Code - Ph.D.  
2. Field of Study - Disaster Studies (DSSH)



SECTION 1 - SECTION 1

Question No.1 (Question Id - 63)

Given below are two statements :

Statement I:

Brokered governance networks are decentralized high density networks, where the responsibility for network coordination is shared across many members.

Statement II:

Shared governance network describe highly centralized, hierarchical networks, where a single actor sits between all or nearly all other actor, coordinating the majority of network exchanges and activities.

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.2 (Question Id - 79)

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

Assertion A:

Eastern coast of India produces more rice than Western Coast.

Reason R:

The Eastern Coast receives more rainfall than the Western Coast.

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 (Correct Answer)**
- (D) ☐ **A** is not correct but **R** is correct

Question No.3 (Question Id - 12)

The level of abstraction which describes how data is stored in a database is referred to as :

- (A) ☐ External level
- (B) ☐ Conceptual level
- (C) ☒ **Internal level (Correct Answer)**
- (D) ☐ Logical level

Question No.4 (Question Id - 29)

The amount of spread that the scores exhibit around some central tendency measures represented as :

- (A) ☒ 
$$\sqrt{\frac{\left(\sum x^2\right)-\frac{\left(\sum x\right)^2}{N}}{N}}$$
 (Correct Answer)
- (B) ☐ 
$$\sqrt{\frac{\left(\sum x^2\right)-\left(\sum x\right)^2}{N}}$$
- (C) ☐

$$\sqrt{\frac{(\sum x)^2 - \frac{(\sum x^2)^2}{N}}{N}}$$

(D) ☐

$$\sqrt{\frac{N(\sum x)^2 - (\sum x^2)^2}{N}}$$

**Question No.5 (Question Id - 42)**

Given below are two statements :

**Statement I:**

Measurement is the assigning of numbers or codes according to prior set rules.

**Statement II:**

Observation is unit upon which measurements are made.

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.6 (Question Id - 98)**

Risk perception is understood as :

- A. Awareness of risk
- B. Dependency on certain subjective and objective factors
- C. Insignificant role of media
- D. Personal experience of disasters
- E. Non-belief in prevention and fatalistic attitude

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

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

**Question No.7 (Question Id - 48)**

Given below are two statements :

**Statement I:**

Narrative approaches do not take into account the structure of text.

**Statement II:**

Narrative analysis follows the structure of the text (sequentially) and sees the statements in this context.

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
- (C) ☐ **Statement I** is correct but **Statement II** is incorrect
- (D) ☒ **Statement I is incorrect but Statement II is correct (Correct Answer)**

**Question No.8 (Question Id - 50)**

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

List - I	List - II
A. Grounded theory	I. Telling stories about events and processes
B. Ethnomethodology	II. Observing events and process as they occur
C. Narrative	III. Development from empirical material
D. Ethnography	IV. Analyzing the methods people use for organizing their everyday life

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

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

**Question No.9 (Question Id - 43)**

Going Native means :

- (A) ☐ Going to native place and researching  
(B) ☐ Speaking in native language and understanding their culture  
(C) ☐ **Loosing professional distance to the field and becoming participant (Correct Answer)**  
(D) ☐ Giving lay people psychological explanation of phenomenon

**Question No.10 (Question Id - 35)**

When asked questions concerning personal income, people commonly lie. This is an example of :

- (A) ☐ Confounding  
(B) ☐ Non-response bias  
(C) ☐ **Response bias (Correct Answer)**  
(D) ☐ Sampling bias

**Question No.11 (Question Id - 92)**

Following are the measures for preventing the health risk arising out of a disaster :

- A. Research and epidemiological studies  
B. Vector control  
C. Immunization and vaccination  
D. Adequate system of garbage disposal  
E. Proper food and nutrition

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

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

**Question No.12 (Question Id - 97)**

Approaches for vulnerability analysis are :

- A. Techno-Centric Analysis  
B. Target Group Analysis  
C. Situational Analysis  
D. Clinical Trial Analysis  
E. Linguistic Analysis

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

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

**Question No.13 (Question Id - 36)**

Mean, Median and Mode are :

- (A) ☐ Measures of deviation  
(B) ☐ Ways of sampling

- (C) ☐ **Measures of central tendency (Correct Answer)**  
(D) ☐ None of the Above

**Question No.14 (Question Id - 30)**

What percentage of measures in a dataset fall above the median ?

- (A) ☐ 49%  
(B) ☐ 50%  
(C) ☐ 51%  
(D) ☐ **Cannot be determined (Correct Answer)**

**Question No.15 (Question Id - 85)**

The formula  $\frac{NIR - R}{NIR + R}$  represents :

- (A) ☐ Simple Ratio  
(B) ☐ **Normalized Difference Vegetation index (Correct Answer)**  
(C) ☐ Leaf Area Index  
(D) ☐ Enhance Vegetation index

**Question No.16 (Question Id - 59)**

As per National Disaster Management Plan, 2019 if the government of another country voluntarily offers assistance as a goodwill gesture in solidarity with disaster victims, the primary responsibility for reviewing such foreign offer of assistance lies with :

- (A) ☐ Ministry of Home Affairs  
(B) ☐ **Ministry of External Affairs (Correct Answer)**  
(C) ☐ Ministry of Finance  
(D) ☐ Prime Minister's Office

**Question No.17 (Question Id - 20)**

The Environment presents a range of opportunities and man is free to choose between them; this basic premise in geography is known as :

- (A) ☐ Determinism  
(B) ☐ Neo-determinism  
(C) ☐ **Possibilism (Correct Answer)**  
(D) ☐ Probabilism

**Question No.18 (Question Id - 73)**

Which search is implemented with an empty first-in-first-out queue ?

- (A) ☐ Depth-first Search  
(B) ☐ **Breadth-first Search (Correct Answer)**  
(C) ☐ Linear Search  
(D) ☐ Optimal Search

**Question No.19 (Question Id - 82)**

Given below are two statements :

**Statement I:**

The tarai soils in India are rich in nitrogen and organic matter but are deficient in phosphate.

**Statement II:**

These soils are generally covered by tall grass and forests.

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.20 (Question Id - 67)**

An attribute of one table matching the primary key of another table is called :

- (A) ☐ Composite Key  
(B) ☐ Secondary Key

- (C) ☒ **Foreign Key (Correct Answer)**  
(D) ☐ Candidate Key

**Question No.21 (Question Id - 21)**

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

**Assertion A:**

Sampling involves taking a portion of population making observation on this smaller group and then generalizing the findings to the large population.

**Reason R:**

Generalization is a procedure in scientific investigation, since rarely it is possible to study all members of a defined population.

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.22 (Question Id - 90)**

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

List - I	List - II
A. Plague	I. <i>Rickettsia prowazekii</i>
B. Q fever	II. <i>Yersinia pestis</i>
C. Typhus fever	III. <i>Variola major</i>
D. Smallpox	IV. <i>Coxiella burnetii</i>

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

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

**Question No.23 (Question Id - 16)**

In stratified sampling the units are selected :

- (A) ☒ **After dividing the population in different groups on the basis of specific standard and then taking an equal proportion of units from each group. (Correct Answer)**  
(B) ☐ Dissociating the population in different groups on the basis of specific standard and then the units are selected from these groups.  
(C) ☐ After dividing the population in different strata and then selecting any one strata out of them.  
(D) ☐ None of the above

**Question No.24 (Question Id - 25)**

Impact factor in research is linked with :

- (A) ☐ Published books  
(B) ☒ **Research journals (Correct Answer)**  
(C) ☐ Research papers  
(D) ☐ Research thesis

**Question No.25 (Question Id - 49)**

The process of qualitative content analysis includes :

- A. Selecting material  
B. Deciding on a research question  
C. Trial coding, evaluating and modifying the coding frame  
D. Building a coding frame  
E. Main analysis and presenting the findings

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

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

**Question No.26 (Question Id - 71)**

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

List - I	List - II
A. Alter	I. Data Control Language
B. Delete	II. Data Query Language
C. Select	III. Data Definition Language
D. Grant	IV. Data Manipulation Language

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

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

**Question No.27 (Question Id - 32)**

A manufacturer of the lenses is studying the power of lenses it sells. In particular, the last 100 lenses sold has an average power of 1.5 diopter. The population in the study is :

- (A) ☒ **All the lenses sold by manufacturer (Correct Answer)**
- (B) ☐ The lenses sold by manufacturer today
- (C) ☐ The lenses sold by manufacturer in a month
- (D) ☐ The last 100 lenses manufacturer sold

**Question No.28 (Question Id - 100)**

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

List - I	List - II
A. Sigmund FMichel Foucaultreud	I. Wrote 'the history of sexuality'
B. Michel Foucault	II. Wrote 'Bodies that matter : on the discourse of sex'
C. Simone de Beauvoir	III. Describes the formation of infantile sexuality in three essays on the theory of sexuality
D. Judith Butler	IV. Wrote 'The second Sex' that one is not born a Woman : one becomes one

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

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

**Question No.29 (Question Id - 66)**

Which of the following clause in SQL imposes condition on an aggregate ?

- (A) ☐ SELECT
- (B) ☐ WHERE
- (C) ☐ FROM
- (D) ☒ **HAVING (Correct Answer)**

**Question No.30 (Question Id - 13)**

What refers to inferring about the whole population based on the observations made on a small part ?

- (A) ☒ **Inductive inference (Correct Answer)**
- (B) ☐ Deductive inference
- (C) ☐ Pseudo-inference
- (D) ☐ Objective inference

**Question No.31 (Question Id - 83)**

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

List - I	List - II
A. Central Flood Control Board	I. 1954
B. Coastal Zone Regulations	II. 1991
C. National Disaster Management Authority	III. 2006
D. Indian Centre for Ocean Information Services	IV. 2007

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

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

**Question No.32 (Question Id - 96)**

The direct health effects of volcanic eruption are :

- A. Suffocation
- B. Carbon monoxide poisoning
- C. Injuries, including burn injuries
- D. Drowning from ensuing tsunami
- E. Mental health concerns

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

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

**Question No.33 (Question Id - 57)**

Article 48A was inserted in the Constitution of India via.

- (A) ☐ Constitution (Seventy-Seventh Amendment) Act
- (B) ☐ Constitution (Forty-Fourth Amendment) Act
- (C) ☐ **Constitution (Forty-Second Amendment) Act (Correct Answer)**
- (D) ☐ Constitution (Sixty-sixth Amendment) Act

**Question No.34 (Question Id - 4)**

A sampling where random sample is divided into stratum is called as :

- (A) ☐ **Stratified random sampling (Correct Answer)**
- (B) ☐ Non-stratified targeted sampling
- (C) ☐ Stratified targeted sampling
- (D) ☐ Non-stratified random sampling

**Question No.35 (Question Id - 31)**

The outliers in any data can produce problematic results. Which of the following measured is the most affected by outliers ?

- (A) ☐ Mean
- (B) ☐ Median
- (C) ☐ **Range (Correct Answer)**
- (D) ☐ All of the above

**Question No.36 (Question Id - 99)**



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

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

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

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

**Question No.37 (Question Id - 28)**

Arrange the following steps of research in an appropriate sequence :

- A. Analyze and interpretation of data  
B. Collection of data  
C. Formulation of a research design  
D. Identification and selection of a problem  
E. Preparation of research report

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

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

**Question No.38 (Question Id - 2)**

Which of the following are primary sources for legal research ?

- A. Legal periodicals  
B. Bibliographies  
C. Indexes  
D. Statutory Orders

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

- (A) ☐ A, B, C  
(B) ☐ B, C, D  
(C) ☒ **A, D (Correct Answer)**  
(D) ☐ B, C

**Question No.39 (Question Id - 88)**

Given below are two statements :

**Statement I:**

Middle East Respiratory Syndrome (MERS) caused by Corona virus family.

**Statement II:**

Severe Acute Respiratory Syndrome (SARS) caused by Corona virus family.

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.40 (Question Id - 91)**

Given below are two statements :

**Statement I:**



In the context of prevention of risk, primary prevention deals with early diagnosis of diseases.

**Statement II:**

In the context of prevention of risk, secondary prevention deals with disability limitation and rehabilitation.

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.41 (Question Id - 18)**

The objective of case study can be :

- (A) ☐ Remedial
- (B) ☐ Diagnostic
- (C) ☐ Educational
- (D) ☐ **All of the above (Correct Answer)**

**Question No.42 (Question Id - 70)**

The field that investigates the mechanics of human intelligence is :

- (A) ☐ History
- (B) ☐ **Cognitive science (Correct Answer)**
- (C) ☐ Psychology
- (D) ☐ Sociology

**Question No.43 (Question Id - 54)**

Under implementation of which international instrument, the Global Platform for Disaster Risk Reduction was formulated :

- (A) ☐ Sendai Framework for Disaster Risk Reduction, 2015-2030
- (B) ☐ **Hyogo Framework for Action, 2005-2015 (Correct Answer)**
- (C) ☐ International Convention on Simplification of Harmonization of Customs Procedure
- (D) ☐ International Declaration on Human Settlement

**Question No.44 (Question Id - 52)**

Union General Assembly had declared 1990 to 2000 with regard to disaster as :

- (A) ☐ International Decade For Man-Made Disaster Reduction
- (B) ☐ **International Decade For Natural Disaster Reduction (Correct Answer)**
- (C) ☐ International Decade For Disaster Risk Reduction
- (D) ☐ International Decade For Human Induced Disaster Reduction

**Question No.45 (Question Id - 19)**

A hypothesis is a :

- (A) ☐ Law
- (B) ☐ Canon
- (C) ☐ Postulate
- (D) ☐ **Supposition (Correct Answer)**

**Question No.46 (Question Id - 58)**

The Supreme Court in N Nagendra Rao & Co v. State of Andhra Pradesh (1994 SC) held that :

- (A) ☐ The state has unlimited sovereign immunity
- (B) ☐ **Barring functions such as administration of justice, maintenance of law and order, repression of crime etc., which are among primary and inalienable function of a constitutional government, the state cannot claim any immunity. (Correct Answer)**
- (C) ☐ It reiterated view of P&O *Steam Navigation Co. v. Secretary of State.*
- (D) ☐ The state has no sovereign immunity

**Question No.47 (Question Id - 11)**

A process that is repeated, evaluated, and refined is called :

- (A) ☐ Diagnostic  
(B) ☐ **Iterative (Correct Answer)**  
(C) ☐ Descriptive  
(D) ☐ Interpretive

**Question No.48 (Question Id - 69)**

Which of the following is a proposed means of testing the intelligence of the machine ?

- (A) ☐ The McCarthy Test  
(B) ☐ **The Turing Test (Correct Answer)**  
(C) ☐ The Fisher Ada Test  
(D) ☐ The Levy Test

**Question No.49 (Question Id - 41)**

Given below are two statements :

**Statement I:**

Case Control study is a prospective study.

**Statement II:**

Cohort study is a retrospective study.

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  
(C) ☐ **Statement I** is correct but **Statement II** is incorrect  
(D) ☐ **Statement I is incorrect but Statement II is correct (Correct Answer)**

**Question No.50 (Question Id - 22)**

What does  $p < 0.01$  imply ?

- (A) ☐ Probability is not statistically significant for 0.01 cases  
(B) ☐ **Probability of a chance occurrence is less than 1 in 100 cases (Correct Answer)**  
(C) ☐ Probability of a chance occurrence is more than 1 in 100 cases  
(D) ☐ Probability is statistically significant for 0.01 cases

**Question No.51 (Question Id - 75)**

In India, which one of the following states has the largest inland saline wetland ?

- (A) ☐ Gujarat  
(B) ☐ Haryana  
(C) ☐ Madhya Pradesh  
(D) ☐ **Rajasthan (Correct Answer)**

**Question No.52 (Question Id - 14)**

A Terabyte is equal to :

- (A) ☐ 1024 Megabytes  
(B) ☐ 1024 Bytes  
(C) ☐ 1024 Kilobytes  
(D) ☐ **1024 Gigabytes (Correct Answer)**

**Question No.53 (Question Id - 3)**

Given below are two statements :

**Statement I:**

Halsbury's Statutes of England is an example of Collative legal research.

**Statement II:**

Report of Joint Parliamentary Committee on any Bill in the Parliament of India is an example of Collective legal research.

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  
(C) ☐ **Statement I is correct but Statement II is incorrect (Correct Answer)**

(D) ☐ **Statement I** is incorrect but **Statement II** is correct

**Question No.54 (Question Id - 17)**

The advantage of random sampling is :

- (A) ☐ It is the excellent method of sample selection
- (B) ☐ It is an economic method in terms of money, time, energy
- (C) ☐ It produces accurate results
- (D) ☐ **All of the above (Correct Answer)**

**Question No.55 (Question Id - 37)**

Given below are two statements :

**Statement I:**

Reliability refers to degree to which a study accurately reflects or assess the specific concept that the researcher is attempting to measure.

**Statement II:**

Internal validity refers to the extent to which the results of a study are generalizable or transferable.

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.56 (Question Id - 61)**

The essential elements of disaster as per Section 2(d) of Disaster Management Act, 2005 ?

- A. Catastrophe, mishap, calamity or grave occurrence affecting any area
- B. Arising only from natural causes (i.e. does not cover man-made causes)
- C. Arising only from accident or negligence
- D. Beyond coping capacity of society

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

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

**Question No.57 (Question Id - 64)**

The vertical fragmentation of a relation in Relational Algebra can be carried using :

- (A) ☐ Selection operation
- (B) ☐ Cartesian Product operation
- (C) ☐ **Projection operation (Correct Answer)**
- (D) ☐ Set Difference operation

**Question No.58 (Question Id - 7)**

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

List - I	List - II
A. Complete Enumeration Surveyed	I. Every unit is surveyed
B. Systematic Sampling	II. The position in stratum is determined separately by randomization within each strata
C. Stratified Random Sampling	III. Random sample is drawn unit by unit and there are equal chances of any unit being drawn
D. Simple Random Sampling	IV. Units occur at same relative position in stratum

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

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

**Question No.59 (Question Id - 40)**

Given below are two statements :

**Statement I:**

Epidemiological studies describe the distribution and magnitude of health and disease problems in the human population.

**Statement II:**

Epidemiological studies identify etiological factors (risk factors) in the pathogenesis of the 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 (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.60 (Question Id - 1)**

Given below are two statements :

**Statement I:**

Legal research consists of an 'inquiry' into 'law' with a view to make advancement in science of law.

**Statement II:**

Legal research is an unsystematic finding.

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  
(C) ☒ **Statement I is correct but Statement II is incorrect (Correct Answer)**  
(D) ☐ **Statement I** is incorrect but **Statement II** is correct

**Question No.61 (Question Id - 72)**

Which agent deals with happy and unhappy states ?

- (A) ☐ Simplex reflex agent  
(B) ☐ Model based agent  
(C) ☒ **Utility based agent (Correct Answer)**  
(D) ☐ Linear agent

**Question No.62 (Question Id - 46)**

Given below are two statements :

**Statement I:**

In qualitative research, the use of the existing literature is not necessary.

**Statement II:**

In planning research, in analyzing material and in writing about findings, the existing literature should be used.

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  
(C) ☐ **Statement I** is correct but **Statement II** is incorrect  
(D) ☒ **Statement I is incorrect but Statement II is correct (Correct Answer)**

**Question No.63 (Question Id - 95)**

Which of the following is a surveillance indicator for morbidity ?

- (A) ☒ **Prevalence Rate (Correct Answer)**  
(B) ☐ Case Fatality Rate  
(C) ☐ Survival Rate  
(D) ☐ Crude Death Rate

**Question No.64 (Question Id - 74)**

In which one of the following Union Territories do the people of the Jarwa Tribes live ?

- (A) ☐ Chandigarh  
(B) ☐ Daman and Diu  
(C) ☐ **Andaman and Nicobar Island (Correct Answer)**  
(D) ☐ Lakshadweep

**Question No.65 (Question Id - 33)**

The psephologist is studying voters in India. It is appropriate for him to use a mean to describe :

- (A) ☐ **Age of a typical voter (Correct Answer)**  
(B) ☐ Party affiliation of a typical voter  
(C) ☐ Gender of a typical voter  
(D) ☐ State of residence of a typical voter

**Question No.66 (Question Id - 65)**

The number of times an entity of an entity set participates in a relationship set is referred to as :

- (A) ☐ **Cardinality of a Relationship (Correct Answer)**  
(B) ☐ Generality of a Relationship  
(C) ☐ Specificity of a Relationship  
(D) ☐ Degree of a Relationship

**Question No.67 (Question Id - 80)**

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

**Assertion A:**

60 degree to 65 degree latitudes in both the hemisphere have a low pressure belt instead of higher pressure.

**Reason R:**

The low pressure areas are permanent over oceans rather than on land.

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.68 (Question Id - 56)**

Which provision of the Constitution of India deals with Inter-state Council ?

- (A) ☐ **Article 263 (Correct Answer)**  
(B) ☐ Article 253  
(C) ☐ Article 249  
(D) ☐ Article 280

**Question No.69 (Question Id - 38)**

Given below are two statements :

**Statement I:**

In statistical hypothesis testing, a test with a 95% confidence level means that there is a 5% chance of getting type 2 error.

**Statement II:**

In statistical hypothesis testing, type 2 errors happen when null hypothesis is true and you subsequently fail to accept it.

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.70 (Question Id - 77)

Who said climate is the main determinant of history, culture, lifestyle and occupations ?

- (A) ☐ G Taylor
- (B) ☐ F Ratzel
- (C) ☐ JE Spencher
- (D) ☐ **E Huntington (Correct Answer)**

Question No.71 (Question Id - 53)

As per ‘Yokohama Strategy and Plan of Action for a Safer World’, what elements contribute to and gain from implementation of Sustainable Development Policies ?

- (A) ☐ **Disaster Prevention, Mitigation, Preparedness and Relief (Correct Answer)**
- (B) ☐ Disaster Risk Reduction, Resilience, Mitigation and Prevention
- (C) ☐ Funding, Prevention, Resilience of Nation
- (D) ☐ Prevention and Mitigation

Question No.72 (Question Id - 51)

Right to live is a Fundamental Right under Article 21 of the Constitution of India and it includes the right of enjoyment of pollution free water and air for full enjoyment of life. In which case the Supreme Court has observed this ?

- (A) ☐ Rajesh Kumar v. Union of India [(2012) SC]
- (B) ☐ **Subhash Kumar v. State of Bihar [(1991) SC] (Correct Answer)**
- (C) ☐ Subramaniam Swamy v. Union of India [(2012) SC]
- (D) ☐ Vineet Narain v. Union of India [(1998) SC]

Question No.73 (Question Id - 27)

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

List - I	List - II
A. Clinical interviews	I. Attention on the questions to be answered
B. Focused interviews	II. Greater flexibility approach
C. Structured interviews	III. Individual life experience
D. Unstructured interviews	IV. Predetermined questions

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

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

Question No.74 (Question Id - 45)

Given below are two statements :

**Statement I:**

Case Studies can capture the process under study in a very detailed and exact way.

**Statement II:**

In comparative study, multiplicity of cases can be compared with regards to particular excerpts.

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.75 (Question Id - 24)

What is a Patent ?

- (A) ☐ An agreement between library and publisher
- (B) ☐ **An agreement between inventor and government (Correct Answer)**
- (C) ☐ An agreement to the government
- (D) ☐ Document in the library

Question No.76 (Question Id - 34)

The distribution of heights of students aged between 9 and 12 is approximately normal with a mean of 140 cm and standard deviation of 5.45 cm. Calculate z-score for a student 155 cm tall.

- (A) ☐ 1.33
- (B) ☒ 2.75 (Correct Answer)
- (C) ☐ 4.11
- (D) ☐ 5.45

**Question No.77 (Question Id - 94)**  
Community Health Centre in India caters to population of :

- (A) ☐ 3000 - 5000
- (B) ☐ 20000 - 30000
- (C) ☒ 80000 - 120000 (Correct Answer)
- (D) ☐ 135000 - 150000

**Question No.78 (Question Id - 86)**

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

List - I	List - II
A. 0.45 - 0.52 $\mu\text{m}$	I. Vegetation discrimination
B. 0.52 - 0.62 $\mu\text{m}$	II. Soil moisture/Snow mapping
C. 0.76 - 0.90 $\mu\text{m}$	III. Coastal water mapping
D. 1.55 - 1.75 $\mu\text{m}$	IV. Plant biomass estimation

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

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

**Question No.79 (Question Id - 44)**

Given below are two statements :

**Statement I:**

Risk Assessment can be done best by RRA, PRA & PLA approach.

**Statement II:**

Risk Assessment cannot be done best by the experts from different fields of study.

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
- (C) ☒ **Statement I is correct but Statement II is incorrect (Correct Answer)**
- (D) ☐ **Statement I** is incorrect but **Statement II** is correct

**Question No.80 (Question Id - 60)**

As per National Disaster Management Plan, 2019, the responsibility framework for strengthening, disaster risk governance consists of following thematic area :

- A. Mainstream and integrate DRR and Institutional Strengthening
- B. Capacity building, empower local authorities, strengthen coordination mechanism
- C. Climate change governance
- D. Coordination with private actors

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

- (A) ☐ A, B, C
- (B) ☐ B, C, D
- (C) ☒ A, B (Correct Answer)
- (D) ☐ A, C

**Question No.81 (Question Id - 9)**

What is full form of RCT ?

- (A) ☐ Randomized Clustered Trials.
- (B) ☒ Randomized Controlled Trials. (Correct Answer)
- (C) ☐ Randomized Coordinated Trials.
- (D) ☐ Rapid Controlled Trials.



**Question No.82 (Question Id - 26)**

Which of the following behavior **does not** confirm to research ethics ?

- (A) ☐ **Arriving at a generalization which the researcher feels as a truth even though data do not support it**

**(Correct Answer)**

- (B) ☐ Copying passages from a book along with acknowledgement  
(C) ☐ Formulating hypothesis which is not confirmed by review of literature  
(D) ☐ Using statistical techniques in qualitative research

**Question No.83 (Question Id - 81)**

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

**Assertion A:**

The lag in temperature is much greater over oceans than over continents.

**Reason R:**

Oceans store heat energy by transporting it downwards in currents to mix with deeper waters.

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.84 (Question Id - 47)**

Given below are two statements :

**Statement I:**

Triangulation may extend methodological and theoretical access to the issues in the field that one has chosen to study.

**Statement II:**

Triangulation allows the integration of a variety of qualitative approaches into a more general research design.

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.85 (Question Id - 6)**

Which one is **not** an advantage of sampling in research ?

- (A) ☐ Greater Accuracy  
(B) ☐ **Relevant properties of all units in population is separately documented (Correct Answer)**  
(C) ☐ Reduced Cost  
(D) ☐ It allows to avail faster speed in completion of research

**Question No.86 (Question Id - 5)**

The theory of 'double sampling' for stratification was given by :

- (A) ☐ **J Neyman (Correct Answer)**  
(B) ☐ K Park  
(C) ☐ HH Heyman  
(D) ☐ None of the above

**Question No.87 (Question Id - 68)**

The constraint that restricts the primary key to take NULL value is :

- (A) ☐ **Entity Integrity Constraint (Correct Answer)**  
(B) ☐ Domain Integrity Constraint  
(C) ☐ Key Integrity Constraint  
(D) ☐ Referential Integrity Constraint

**Question No.88 (Question Id - 87)**

Pentavalent vaccine provides protection to child from following diseases :

- A. Diphtheria
- B. Pertussis
- C. Tuberculosis
- D. Hepatitis B
- E. Haemophilus influenza type b

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

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

**Question No.89 (Question Id - 39)**

In statistical hypothesis testing, type 1 error are commonly referred to as :

- (A) ☐ False Negatives
- (B) ☒ **False Positives (Correct Answer)**
- (C) ☐ True Negatives
- (D) ☐ True Positives

**Question No.90 (Question Id - 23)**

In practical terms, the range of the distribution in a normal distribution curve are :

- (A) ☐ 2 standard deviation units
- (B) ☐ 3 standard deviation units
- (C) ☐ 4 standard deviation units
- (D) ☒ **6 standard deviation units (Correct Answer)**

**Question No.91 (Question Id - 8)**

What is the sequence of stages in 'Objective Hermeneutics' ?

- A. Explication of the interacting subject's intention.
- B. Explication of the context which immediately precedes an interaction.
- C. Characterization of the linguistic features of the interaction.
- D. Explication of general relations.

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

- (A) ☐ D, A, C, B
- (B) ☐ A, B, C, D
- (C) ☒ **B, A, C, D (Correct Answer)**
- (D) ☐ D, C, B, A

**Question No.92 (Question Id - 89)**

Which of the following are priorities of action for Sendai Framework ?

- A. Understanding Disaster Risk.
- B. Investing in Disaster risk reduction for resilience.
- C. Strengthening Disaster risk governance to manage disaster risk.
- D. Understanding ambitious efforts to combat climate change and adapt to its effects, with enhanced support to assist developing countries to do so.
- E. Enhancing disaster preparedness for effective response, and to 'Build Back Better' in recovery, rehabilitation and reconstruction.

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

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

**Question No.93 (Question Id - 10)**

Which one of the following represents ‘a priori’ ?

- (A) ☐ Relating to or derived from empirical research
- (B) ☒ **Relating to or derived by reasoning from self-evident proportions (Correct Answer)**
- (C) ☐ Deduced from finding of experiments
- (D) ☐ None of the Above

**Question No.94 (Question Id - 76)**

Who said similar location lead to similar mode of life ?

- (A) ☒ **Ratzel (Correct Answer)**
- (B) ☐ Carl Ritter
- (C) ☐ Alexander Von Humboldt
- (D) ☐ EC Semple

**Question No.95 (Question Id - 62)**

REDD+ is a multilateral solution developed by :

- (A) ☐ Parties of UNHRC
- (B) ☒ **Parties of UNFCCC (Correct Answer)**
- (C) ☐ Parties of United National Security Council
- (D) ☐ Parties of WHO

**Question No.96 (Question Id - 93)**

Which phase of disaster cycle should store inventories of medical supplies ?

- (A) ☒ **Preparedness (Correct Answer)**
- (B) ☐ Response
- (C) ☐ Recovery
- (D) ☐ Mitigation

**Question No.97 (Question Id - 78)**

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

**Assertion A:**

Spatial data development and analysis is carried out in GIS software.

**Reason R:**

GIS provides a platform to create and integrate spatial and non-spatial database.

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.98 (Question Id - 15)**

Which of the following is **true** ?

- (A) ☐ Every Super Key is a Candidate Key
- (B) ☐ Every Super Key is a Primary Key
- (C) ☒ **Every Candidate Key is a Super Key (Correct Answer)**
- (D) ☐ Every Candidate Key is a Primary Key

**Question No.99 (Question Id - 55)**

One of the global targets as per Sendai Framework, 2015 is :

- (A) ☐ To substantially reduce global disaster mortality by 2030, aiming to lower the average per 100,000 global mortality rate in the decade 2020-2030 compared to the period 2000-2010.
- (B) ☐ To lower global disaster mortality average per 100,000 in decade 2020-2030 as compared to 2010-2020
- (C) ☐ To substantially reduce global disaster mortality by 2025, aiming to lower the average per 100,000 global mortality rate in the decade 2015-2025 compared to the period 2005-2015.
- (D) ☐

To substantially reduce global disaster mortality by 2030, aiming to lower the average per 100,000 global mortality rate in the decade 2020-2030 compared to the period 2005-2015.

(Correct Answer)

Question No.100 (Question Id - 84)

Match List - I with List - II :

List - I	List - II
(Atomic Power)	(Plants/Heavy water)
A. Thal	I. Andhra Pradesh
B. Manuguru	II. Gujarat
C. Kakrapar	III. Maharashtra
D. Kaiga	IV. Karnataka

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

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