

Date: _____

Day: _____

GENERAL SCIENCE
AND ABILITYPART - IIQ. IVQ. 05 (d)ii Hydrometer

An instrument
used to measure
the humidity of
the atmosphere.

iii. Epicenter

Epicenter is the
point of the earth
crust where the
seismic energy of
the earthquake is
released. It is the
surface point while
hypocenter is inside
the earth.

iii: Eye wall of
the cyclone

Eye wall of
the cyclone is
the most dangerous
part of cyclones
like hurricanes
and typhons.

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GENERAL SCIENCE
AND ABILITY
PART - II

Q.100.05 (d)

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iv. Deep Focus

When the earthquake occurs in very deep below average depth. It is called deep focus.

v. Light Year:

A distance covered by light in the atmosphere.
1 light year =
9.46 trillion kilometer

Q. 100.05 - (a)

Population of Pakistan

1. Definition

Population is the total number of people in any society.

2. Causes of High Population in Pakistan:

a. Illiteracy

Minimal literacy rate is the major cause of high population. People are unaware.

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of high population

b). Less use of
Contraceptions

There is no use
of contraceptions

c). Role of Orthodox
Ulemas

The Ulemas are
also supporting to
promote population.

Solutions:

a). Awareness

There should be
awareness that high
population is burden
on resources and
threat.

b). Laws

The government
must devise appropriate
laws in this regard.

c). Media Campaign

The media must
launch a campaign
to apprise people
about the hazards
of population.

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Q.100.03 - 4

i). Biofuel

Biofuel is a type of renewable energy source made from organic materials like plants.

iii). Hydrosphere

The hydrosphere is the presence of water below or above the Earth.

vi). Isotopes

Isotopes are the molecules having same atomic number.

iii). Adulteration

Adulteration means adding unwanted substance to food.

iv). Troposphere

It is the bottom layer of the atmosphere.

Q.100.04 (b)

Role of ribosome in protein synthesis

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1). Definition of ribosome

Ribosome is the organelle of the cell which produces protein

2). Role in protein synthesis

a). Produced on Rough Endoplasmic Reticulum

Ribosomes are produced on rough endoplasmic reticulum

b). Carried by mRNA

It is carried by mRNA for the purpose of protein synthesis

c). Transfer RNA

Transfer RNA carries its code.

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Q. 100.03 (Part A)

(a). Cell:

Cell is the basic structure of life

(b). How cell form organelles

=> Division of lysosomes

The division of lysosomes help in

formation of organelle

=> Lysosome covers organelle

The lysosome covers the organelles with membrane and form new one

(c). Mitochondria in a human cell

=> Power House of the cell

Mitochondria is the power house of the cell

=> Supply Energy to Entire cell

It supplies energy to the entire cell

Q. 100.03 (PART D)

=> Disease, symptomology, causative agents and remedies?

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(A). Dangue

Definition: It is a sort of fever which result in high temperature and body pain

(B). Symptomology

= High fever

= Pain in bones

(C). Causative Agents

Mosquitoes which live on stagnant ponds and water

(D). Remedies

= Use of appropriate mosquito nets

= Isolation from stagnant ponds which are breeding places of mosquitoes

Q.140 . 02

PART (C)

- Balance Diet ? Deficiency of Vitamin A, D and E can result in what type of diseases?

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(A). Balance Diet,
Diet which is
sufficient in vitamins,
calciums and minerals

(B). Deficiency of
Vitamin A

Eye - sight weakness

Deficiency of vitamin
A results in eye
sight weakness

(C). Deficiency of
Vitamin D

Bone diseases

Bone diseases are
the result of
Vitamin D problems

(D). DEFICIENCY OF
VITAMIN E

FERTILITY PROBLEMS,

Deficiency of vitamin
E causes problems
of fertility

Q.100 . 02

PART - 08 (B)

=, Universe is EXPANDING,
How it resembles
with Ballon in Working,

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(A): UNIVERSE

Universe is the combination of many galaxies. Hundreds of galaxies combine to form universe.

(B): GALAXIES

Galaxy is a gravitational force which contains blackhole, nebulae, staller remnants, planets, dwarf planets and many other stars.

(C): EXPANSION OF UNIVERSE

EXOTHERMIC REACTION INSIDE STARS

There is fusion of Hydrogen with another hydrogen

HYDROGEN TO HELIUM REACTION

After hydrogen reaction there comes a turn of helium
oxygen - silicon

The reaction
of these will

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Start after the
combustion of hydrogen
and helium.

After combustion this
waste will form
debris and Steroids
and meteroids

Elimination of gravitational
Force from waste material

Stars will no longer
the waste material
with gravitational
force after combustion

SUPERNOVA - HYPERNOVA WILL
RESULT IN MANY SMALL
BODIES HENCE EXPANDING
UNIVERSE

⇒ After the elimination
of gravitational force.

There will be a
blast which will
form steroids, meteroids
and other bodies

⇒ This will enhance
the expansion of
universe.

SECTION - II

c. Spot the Error

ii: 3, 5, 7, 11, 13, 15

i. 2, 6, 18, 54, 162, 486

486 does not fit
in the equation

because it cannot
be multiplied by

3.

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(10) :-

A triangle with sides
5cm, 12cm, 13cm. Find
all three angles

(1). Angle of 5 cm

$$(n - 3) \times 180$$

$$(5 - 3) \times 180$$

$$= 2 \times 180$$

$$= 360^\circ$$

(2). Angle of 12 cm

$$(n - 3) \times 180$$

$$(12 - 3) \times 180$$

$$9 \times 180$$

$$= 1620^\circ$$

(3). Angle of 13 cm

$$(n - 3) \times 180$$

$$13 - 3 \times 180$$

$$= 10 \times 180$$

$$= 1800^\circ$$

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Q. 100.08

PART C

A rectangular box
is $8\text{m} \times 6\text{m} \times 4\text{m}$.
Find total surface
area and volume;

$$\text{Area} = \text{Length} \times \text{Width} \times \text{Breadth}$$
$$8 \times 6 \times 4$$

$$\text{Area of Volume} = 183$$

PART D

= Family total members = 8

= Men eat = 77 kg

= Women eat = 50 kg

= Amna joined the
family

= Average consumption
became = 67

= How much Amna
eat in kgs?

Answer = 17 kg is
eaten by Amna
if consumption
is 67