



Previous Year Paper

HPSC ADO

- Question No. 1

Grapes contain which of the following acids?

**Options :**

1. Malic acid
2. Tartaric acid
3. Hydrocyanic acid
4. both a and b

Answer : both a and b

- Question No. 2

In hilly area which system of fruit planting should be used:

**Options :**

1. Contour
2. Strip cropping
3. Wind strip cropping
4. None of these

Answer : Contour

- Question No. 3

Per capita minimum requirement of vegetables and fruits together is:

**Options :**

1. 37 grams per day
2. 87 grams per day
3. 137gramsperday
4. 400 gm Per day

Answer : 400 gm Per day

- Question No. 4

The approximate number of orange plants in one hectare would be:

**Options :**

1. 350
2. 375
3. 177
4. 277

Answer : 277

• Question No. 5

Vegetables occupy about % of the total cultivated area.

**Options :**

1. 2-3%
2. 7\_8 %
3. 12-13%
4. 19-20%

Answer : 2-3%

• Question No. 6

Which of the following is not a growth promoter?

**Options :**

1. Auxin
2. Gibberellin
3. Abscissic acid
4. Cytokinin

Answer : Abscissic acid

• Question No. 7

Which sugar is obtained from grapes?

**Options :**

1. Sucrose

2. Lactose
3. Maltose
4. Glucose

Answer : Glucose

• Question No. 8

Anion exchange capacity is found maximum in the case of:

**Options :**

1. Kaolinite
2. Montmorillonite
3. Illite
4. None of these

Answer : Kaolinite

• Question No. 9

Azolla can fix kg N<sub>2</sub>/ha/year.

**Options :**

1. 80-100
2. 30\_40
3. 10-100
4. 100\_120

Answer : 30\_40

• Question No. 10

Denitrification is more in:-

**Options :**

1. Waterlogged soils
2. Well drained soils
3. Heavy soils
4. Light soils

Answer : Waterlogged soils

- Question No. 11

Fungal population is comparatively high in a soil having:

**Options :**

1. Acidic pH
2. Neutral pH
3. Alkaline pH
4. Acidic to neutral pH

Answer : Acidic pH

- Question No. 12

Microbial population of a soil in general

**Options :**

1. Decreases with depth
2. Increases with depth
3. Constant throughout the profile
4. No specific trend

Answer : Decreases with depth

- Question No. 13

Soils with high pH are generally deficient in

**Options :**

1. Zn and Mn
2. BandFe
3. Cu and Mo
4. Ca and Mg

Answer : Zn and Mn

- Question No. 14

A condition in which pollination and fertilization take place in an unopened flower is termed as:

**Options :**

1. Homogamy
2. Apogamy
3. Polygamy
4. Cleistogamy

Answer : Cleistogamy

• Question No. 15

After the cell has undergone mitosis, the amount of DNA in daughter cells will be:

**Options :**

1. Equal to the parent cell
2. Half of the parent cell
3. Double of the parent cell
4. None of the above

Answer : Equal to the parent cell

• Question No. 16

An anticodon is a sequence of three nitrogenous bases found on:

**Options :**

1. DNA
2. mRNA
3. rRNA
4. tRNA

Answer : tRNA

• Question No. 17

Bread wheat is:

**Options :**

1. Diploid
2. Tetraploid

3. Auto-allopolyploid
4. Hexaploid
5. None of these

Answer : Hexaploid

• Question No. 18

DNA exists as a double helix as a result of hydrogen bonding between:

**Options :**

1. Sugar molecules
2. Phosphate groups
3. Nucleohistones
4. Nucleosides

Answer : Nucleohistones

• Question No. 19

Female reproductive organ in the flower is:

**Options :**

1. Calyx
2. Corolla
3. Stamens
4. Capels

Answer : Capels

• Question No. 20

Mendel is famous for

**Options :**

1. Propounding the laws of inheritance
2. Laws of limiting factors
3. The theory of mutation
4. The discovery of penicillin

Answer : Propounding the laws of inheritance

- Question No. 21

In India for hybrid seed production in maize we use:

**Options :**

1. Cytoplasmic genetic male sterility
2. Genetic male sterility
3. Self Incompatibility
4. Detasseling

Answer : Genetic male sterility

- Question No. 22

In sorghum somatic chromosome number is 20. What would be its chromosome number in the endosperm?

**Options :**

1. 10
2. 20
3. 30
4. 40

Answer : 30

- Question No. 23

The haploid phase in plant is called:

**Options :**

1. Sporophyte
2. Gametophyte
3. Zygote
4. None of the above

Answer : Gametophyte

- Question No. 24

By radioactive carbon method the age of the fossil can be determined upto:



**Options :**

1. 10,000 years
2. 15,000 years
3. 20,000 years
4. 25,000 years

Answer : 20,000 years

• Question No. 25

Gughia weevil is a pest of:

**Options :**

1. Paddy
2. Wheat
3. Jowar
4. Maize

Answer : Wheat

• Question No. 26

Nitrogen is applied into transplanted rice in the proportion of:

**Options :**

1. 50%basal + Nil at tillering+ 50% at panicle emergence stage
2. Nil at basal + 50% at tillering + 50% at panicle emergence stage
3. 25 %basal + 50% at tillering + 25 % at panicle emergence stage
4. 50 % at basal + 25%at tillering + 25% at panicle emergence stage

Answer : 50 % at basal + 25%at tillering + 25% at panicle emergence stage

• Question No. 27

A combination of horticultural crops, field crops and tree species is called:

**Options :**

1. Agro-forestry
2. Silvi-pastoralsystem
3. Multipurpose forest tree plantation system

4. None of the above

Answer : None of the above

• Question No. 28

A photosynthetic unit consists:

**Options :**

1. 1000 light harvesting chlorophyll molecules
2. 800 light harvesting chlorophyll molecules and rapping centre
3. 200 light harvesting chlorophyll molecules
4. About 400light harvesting chlorophyll molecules and trapping centre

Answer : About 400light harvesting chlorophyll molecules and trapping centre

• Question No. 29

fruits are in general in nature:

**Options :**

1. Acidic
2. Basic
3. Neutral
4. All the above

Answer : Acidic

• Question No. 30

Alternaria blight disease can be effectively controlled by

**Options :**

1. BHC
2. Aldrin
3. Treating seeds with hot water
4. All of the above

Answer : BHC

- Question No. 31

An enzyme formed within the cell and not excreted into the medium (intra cellular) is called:

**Options :**

1. Exoenzyme
2. Apoenzyme
3. Endoenzyme
4. Coenzyme

Answer : Endoenzyme

- Question No. 32

Arachis hypogea L. is the botanical name of

**Options :**

1. Soybean
2. Rapeseed
3. Groundnut
4. Sugarbeet

Answer : Groundnut

- Question No. 33

Auxin is:

**Options :**

1. An enzyme
2. A vitamin
3. A hormone
4. A protein

Answer : A hormone

- Question No. 34

Average gestation period of cow is:

**Options :**

1. 261 days
2. 282 days
3. 296days
4. 310 days

Answer : 282 days

• Question No. 35

Bacterial leaf blight of rice is caused by

**Options :**

1. Xanthomonas
2. Erwinia
3. pseudomonas
4. Bacillus

Answer : Xanthomonas

• Question No. 36

Brown rust of wheat is caused by

**Options :**

1. Puccinia recondita
2. Puccinia graminis tritici
3. Puccinia striiformis
4. Puccinia hordei

Answer : Puccinia recondita

• Question No. 37

Cattle semen is frozen and stored for long periods in liquid nitrogen at temperature:

**Options :**

1. -50°C
2. -79°C

3.  $-135^{\circ}\text{C}$

4.  $-196^{\circ}\text{C}$

Answer :  $-196^{\circ}\text{C}$

• Question No. 38

Chemical formula of single superphosphate is:

**Options :**

1.  $\text{Ca}(\text{H}_3\text{P}_4)_2$

2.  $\text{CaHP}_4$

3.  $\text{Ca}_3(\text{P}_4)_2$

4.  $\text{Ca}(\text{H}_2\text{P}_4)_2 \cdot \text{H}_2\text{O}$

Answer :  $\text{Ca}(\text{H}_2\text{P}_4)_2 \cdot \text{H}_2\text{O}$

• Question No. 39

Chlorophyll.a, usually appears:

**Options :**

1. Blue green

2. yellow green

3. Red green

4. Brown green

Answer : Blue green

• Question No. 40

Yellow coloured fruits and vegetables are rich source of:

**Options :**

1. Vit. 'E'

2. vit. 'c'

3. vit. 'A'

4. vit. 'B'

Answer : vit. 'A'

- Question No. 41

Decomposition of organic matter in submerged soil is carried out by:

**Options :**

1. Bacteria
2. Actinomycetes
3. Fungi
4. Earthworm

Answer : Fungi

- Question No. 42

American cotton should normally be planted at the distance of cm.

**Options :**

1. 45x30
2. 60 x45
3. 60 x 30
4. 90x45

Answer : 60 x 30

- Question No. 43

Availability of phosphorus is maximum at pH:

**Options :**

1. Neutral
2. Acidic
3. Alkaline
4. All of the above

Answer : Neutral

- Question No. 44

Azotobacter spp fix nitrogen:

**Options :**

1. As symbionts on sugarcane
2. As symbionts on rice
3. As symbionts on legume
4. none of these

Answer : As symbionts on rice

• Question No. 45

How many irrigation is required in wheat crop:

**Options :**

1. 6
2. 7
3. 4
4. 3

Answer : 6

• Question No. 46

Name the mode of leaching:

**Options :**

1. Percolation
2. Infiltration
3. Runoff water
4. All the above

Answer : All the above

• Question No. 47

Recovery of sugar in sugarcane crop in India is:

**Options :**

1. 68%
2. 8-10%
3. 10-15%
4. 4-6%

Answer : 10-15%

• Question No. 48

The optimum temperature for seed germination in Kharif season is:

**Options :**

1. 10-15°C
2. 20-25°C
3. 35-40°C
4. 25-35°C

Answer : 25-35°C

• Question No. 49

Asepsis means:

**Options :**

1. Exclusion of air
2. Exclusion of moisture./water
3. Exclusion of dust and spray
4. Exclusion of microorganism

Answer : Exclusion of microorganism

• Question No. 50

Which city of Haryana is known as .City of Weavers?

**Options :**

1. Mahendragarh
2. Fatehabad
3. Karnal
4. Panipat

Answer : Panipat

• Question No. 51

Which of the following Kings' was from Thaneshwar city of Haryana the capital?

**Options :**



1. Kanishka
2. Harshwardhan
3. Chandra Gupta Maruya
4. Samrat Ashok

Answer : Harshwardhan

• Question No. 52

Which was the first metal used by man?

**Options :**

1. Copper
2. Silver
3. Bronze
4. Brass

Answer : Copper

• Question No. 53

The Aryans came to India from:

**Options :**

1. Eastern Europe
2. Central Asia
3. South-east Asia
4. None of the above

Answer : Eastern Europe

• Question No. 54

The meaning of 'Buddha, is:

**Options :**

1. Anything beyond God
2. Soul after death
3. The Enlightened one
4. The ultimate path for moksha

Answer : The Enlightened one

- Question No. 55

Which planet of the solar system spins on its axis at the fastest rate?

**Options :**

1. Mercury
2. Earth
3. Jupiter
4. Saturn

Answer : Jupiter

- Question No. 56

The planets are kept in motion in their respective orbits by

**Options :**

1. Their great size and spherical shape
2. The rotation and density
3. Gravitation and centrifugal force
4. Rotation of the sun on its axis

Answer : Gravitation and centrifugal force

- Question No. 57

Sea tides show variations because of:

**Options :**

1. Variations in gravitational pull of the moon
2. Variations in gravitational pull of the sun
3. Distorted spherical shape of the earth
4. Different phases of the moon

Answer : Different phases of the moon

- Question No. 58

Winds and air currents differ in the aspect that:

**Options :**

1. Air currents blow much faster than winds
2. Air currents are always moisture laden while the winds are usually dry
3. The winds blow on lands while air currents blow over seas and oceans
4. Winds are horizontal movements of air while air currents are the vertical movements of air.

Answer : Winds are horizontal movements of air while air currents are the vertical movements of air.

• Question No. 59

The constituent Assembly which framed the constitution for Independent India was set up in:

**Options :**

1. 1945
2. 1946
3. 1947
4. 1948

Answer : 1946

• Question No. 60

Who among the following was not a member of the Constituent Assembly established in July, 1946?

**Options :**

1. Vallabhbhai Patel
2. Mahatma Gandhi
3. IL M. Munshi
4. J. B. Kripalani

Answer : Mahatma Gandhi

• Question No. 61

If an Indian citizen is denied a public office because of his religion, which of the following Fundamental Rights is denied to him?

**Options :**

1. Right to Freedom
2. Right to Equality
3. Right to Freedom of Religion
4. Right against Exploitation

Answer : Right to Equality

• Question No. 62

The concept of Five Year Plans in India was introduced by

**Options :**

1. lord Mountbatten
2. Jawaharlal Nehru
3. Nairu Gandhi
4. Lal Bahadur shastri

Answer : Jawaharlal Nehru

• Question No. 63

India has :

**Options :**

1. Socialistic economy
2. Gandhian economy
3. Mixed economy
4. Free economy

Answer : Mixed economy

• Question No. 64

The National Development council gets its administrative support from:

**Options :**

1. Planning Commission
2. Finance Commission
3. Administrative Reforms Commission

4. Sarkaria Commission

Answer : Planning Commission

• Question No. 65

The main constituents of pearls are:

**Options :**

1. Calcium carbonate & magnesium carbonate
2. Calcium oxide & ammonium chloride
3. Aragonite & sodium carbonate
4. Ammonium sulfate & sodium carbonate

Answer : Calcium carbonate & magnesium carbonate

• Question No. 66

The element found on the surface of the moon is:

**Options :**

1. Tin
2. Tungsten
3. Tantalum
4. Titanium

Answer : Titanium

• Question No. 67

The five intertwined rings or circles on the olympic flag made of white (from left to right) are:-

**Options :**

1. Blue, yellow, black, green, and red
2. Yellow, red, green, black & blue
3. Red, green, black, yellow and blue
4. Yellow, green, black, blue and red

Answer : Blue, yellow, black, green, and red

- Question No. 68

In baseball, the two opposing teams consist of:

**Options :**

1. 10 players each
2. 9 players each
3. 8 players each
4. 7 players each

Answer : 9 players each

- Question No. 69

World Bank is a body:

**Options :**

1. Of non- official, generous individuals
2. That controls world wide foreign exchange operation
3. Of major banks operating in different countries
4. That gives aid to developing countries

Answer : That gives aid to developing countries

- Question No. 70

Transfer of heat energy from the sun to the moon takes place by

**Options :**

1. Radiation only
2. Radiation and conduction
3. Radiation and convection
4. Radiation, conduction and convection

Answer : Radiation only

- Question No. 71

The blue color of the water in the sea is due to:

**Options :**

1. Absorption of other colors by water molecules
2. Reflection of blue light by the impurities in seawater
3. Reflection of blue sky by sea water and scattering of blue light by water molecules
4. None of these

Answer : Reflection of blue light by the impurities in seawater

• Question No. 72

Which one of the following statements is correct?

**Options :**

1. All enzymes are proteins
2. All proteins are enzymes
3. Some enzymes are proteins
4. Only bacterial enzymes are proteins

Answer : All enzymes are proteins

• Question No. 73

Nobel prize are distributed annually at:

**Options :**

1. Manila
2. Stockholm
3. Geneva
4. New York

Answer : Stockholm

• Question No. 74

Kinnow is a cross between

**Options :**

1. King and Willow leaf
2. Mandarin and Sweet orange

3. Willow leaf and Wilking
4. King and Wilking

Answer : King and Willow leaf

• Question No. 75

Palmitic and oleic acids are prominent fatty acids in insects and comprise:

**Options :**

1. Over 40% of the total fatty acids
2. Over 50% of the total fatty acids
3. Over 60% of the total fatty acids
4. Over 70% of the total fatty acids

Answer : Over 70% of the total fatty acids

• Question No. 76

The average locust swarm spreads over:

**Options :**

1. 5 square kilometers
2. 10 square kilometers
3. 15 square kilometers
4. 20 square kilometers

Answer : 10 square kilometers

• Question No. 77

Which group of insecticide is carcinogenic?

**Options :**

1. Organophosphates
2. Carbamates
3. Synthetic Pyrethroids
4. Fumigant

Answer : Organophosphates



• Question No. 78

Which of the following fungi is predaceous on nematodes?

**Options :**

1. Didymella sp.
2. Dactylaria sp.
3. Both of them
4. None of them

Answer : Dactylaria sp.

• Question No. 79

Which of the following is not the pest of paddy?

**Options :**

1. Tryporyza incertulas
2. Lampides boeticus
3. Nilaparvata lugens
4. Nephotettix nigropictus

Answer : Lampides boeticus

• Question No. 80

Association of fungi with roots of higher plants is known as:

**Options :**

1. Lichen
2. Mycorrhiza
3. Ascolichen
4. Basidiolichen

Answer : Mycorrhiza

• Question No. 81

Late blight of potato is caused by:

**Options :**

1. Alternaria solani
2. Xanthomonas campestris pv' Citrii
3. Phytophthora infestans
4. Synchytrium endobioticum

Answer : Phytophthora infestans

• Question No. 82

Tomato leaf curl is caused by

**Options :**

1. Bacteria
2. Mycoplasma
3. Fungi
4. Virus

Answer : Virus

• Question No. 83

Which was the first plant bacterial disease reported?

**Options :**

1. Angular leaf spot of cotton
2. Citrus canker
3. Fire blight of apple
4. Bacterial blight of tomato

Answer : Fire blight of apple

• Question No. 84

Bacteria responsible for making curd are:

**Options :**

1. Lactobacillus lactis
2. Mycobacterium tuberculosis
3. Streptococcus agalactiae
4. Corynebacterium pyogenes

Answer : Lactobacillus lactis

- Question No. 85

Fat in milk is present in:

**Options :**

1. Colloidal form
2. Solution form
3. Emulsion form
4. None of the above form

Answer : Emulsion form

- Question No. 86

Heat period of buffalo is:

**Options :**

1. 12-16 hours
2. 24-25 hours
3. 18-36 hours
4. None of them

Answer : 24-25 hours

- Question No. 87

Sugar of milk is called:

**Options :**

1. Glucose
2. Lactose
3. Sucrose
4. Fructose

Answer : Lactose

- Question No. 88

The meat of calf is called as:

**Options :**

1. Pork
2. Veal
3. Chevron
4. Mutron

Answer : Veal

• Question No. 89

In unisexual plants sex can be changed by application of;

**Options :**

1. Auxins
2. ABA
3. Ethanol
4. Cytokinins

Answer : Auxins

• Question No. 90

Sialic acid is a constituent of:

**Options :**

1. Cell membrane
2. cell wall
3. chromosomes
4. Dictyosomes

Answer : Cell membrane

• Question No. 91

Turgidity of a cell is maintained by:

**Options :**

1. Diffusion pressure
2. Wall pressure
3. Osmotic pressure
4. Turgor pressure

Answer : Turgor pressure

• Question No. 92

Which of the following elements has not been proved to be essential for plants?

**Options :**

1. Potassium
2. Sodium
3. Zinc
4. Iron

Answer : Sodium

• Question No. 93

How many agro-climatic zones are there in India?

**Options :**

1. 11
2. 15
3. 13
4. 21

Answer : 15

• Question No. 94

In which year, 14 major banks were nationalized on

**Options :**

1. July 1969
2. July 1982
3. July 1967
4. July 1987

Answer : July 1969

• Question No. 95

The term monopolistic competition means

**Options :**

1. A large number of sellers deals with heterogeneous products
2. A few number of sellers deals with heterogeneous products
3. A large number of buyers deals with heterogeneous commodity
4. None of these

Answer : A large number of sellers deals with heterogeneous products

• Question No. 96

The price which is announced by the government before sowing to secure the benefits of farmers is known as

**Options :**

1. MSP
2. Issue price
3. Irvy price
4. Retail price

Answer : MSP

• Question No. 97

When was the famous battle of Panipat fought?

**Options :**

1. 1539
2. 1556
3. 1565
4. 1576

Answer : 1556

• Question No. 98

With how many states does the boundary of Haryana touch?

**Options :**

1. 4
2. 5
3. 6
4. 7

Answer : 4

• Question No. 99

An ordinance regarding the prohibition of alcohol was passed on 1st July, 1996. Later on it was withdrawn on –

**Options :**

1. 1st April, 1998
2. 1st April, 1997
3. 1st June, 1998
4. 1st Aug, 1997

Answer : 1st April, 1998

• Question No. 100

The yellowish color of cow milk is due to the presence of \_\_\_\_\_

**Options :**

1. Beta carotene
2. Riboflavin
3. Casein
4. Fat globules

Answer : Beta carotene

