

**MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY BATHINDA (Pb) - 151001**

(State Univ. Estb by Punjab Govt. Act No. 5 (2015) and Approved u/s 2(f) &amp; 12(B) of the UGC Act of 1956)

**Recruitment Test****(Post: Assistant Professor in Agricultural Sciences & Engineering-2023)****Answer Key**

Question Number	Answer Option	Question Number	Answer Option
1.	b	42.	b
2.	c	43.	c
3.	d	44.	b
4.	c	45.	b
5.	a	46.	c
6.	d	47.	a
7.	a	48.	b
8.	c	49.	d
9.	b	50.	c
10.	c	51.	b
11.	d	52.	b
12.	a	53.	c
13.	b	54.	a
14.	d	55.	b
15.	a	56.	b
16.	c	57.	c
17.	b	58.	a
18.	c	59.	c
19.	d	60.	a
20.	b		
21.	a		
22.	c		
23.	c		
24.	d		
25.	a		
26.	a		
27.	b		
28.	d		
29.	a		
30.	b		
31.	c		
32.	a		
33.	b		
34.	b		
35.	b		
36.	a		
37.	c		
38.	c		
39.	b		
40.	d		
41.	b		

*Carvanti*



**RECRUITMENT TEST OF POST**

**Assistant Professor in Agricultural Sciences & Engineering-2023**

Roll No. .... Date: ..... Signature of the Candidate: .....

- Q.1 *Azolla*, grown as a green manure for rice cultivation, has a limited scope, because
- It requires very high dose of phosphate supply for its rapid multiplication
  - It requires adequate water supply for about a month before planting
  - It is affected by insect-pests
  - Its seed is not available as it does not sporulate under Indian conditions
- Q.2 The resetting in pome fruits is due to :
- Molybdenum deficiency
  - Nitrogen deficiency
  - Zinc deficiency
  - Magnesium deficiency
- Q.3 Which one of the following tomato variety is indeterminate type?
- Punjab Chhuhara
  - Pusa Ruby
  - Pusa Sheetal
  - Sun Gold
- Q.4 Among the following states, which one has the highest area under jasmine crop?
- Andhra Pradesh
  - Goa
  - Tamil Nadu
  - Kerala
- Q.5 Consider the following growth regulators :
- GA
  - IBA
  - NAA
  - 2,4-D
- Fruit set in Chilli can be improved by the application of which of the above mentioned growth regulators?
- 1 and 3
  - 2 and 4
  - 1 and 4
  - 2 and 3

Q.6 Consider the following :

1. Cuttings
2. Seeds
3. Suckers

By which of the above is chrysanthemum propagated?

- a) 1 only
- b) 1 and 3 only
- c) 2 and 3 only
- d) 1, 2 and 3

Q.7 Which one of the following pairs has the highest level of vitamin A and calcium?

- a) Turnip Green, Kale
- b) Celery, Brussels sprouts
- c) Drumstick , Chow – Chow (*Sechium*)
- d) Amaranth, Swiss chard

Q.8 The terms 'citrate soluble' and 'water soluble' are associated with which of the following?

- a) Nitrogenous fertilizers
- b) Potassic fertilizers
- c) Phosphatic fertilizers
- d) None of the above

Q.9 Which of the following transgenic crop has maximum cultivated area in the world?

- a) Maze
- b) Soybean
- c) Cotton
- d) Cánola

Q.10 The bio gas has major content with CO<sub>2</sub> is:

- a) C<sub>2</sub>H<sub>2</sub>
- b) CO
- c) CH<sub>4</sub>
- d) N<sub>2</sub>

Q.11 Cotton leaf curl virus is transmitted by:

- a) Aphid
- b) Jassid
- c) Leaf hopper
- d) White fly

Q.12 The sex linked genes are found on the

- a) X- chromosome
- b) G- chromosome
- c) Z- chromosome
- d) S- chromosome



- Q.13 The longest phase in mitosis is :
- Anaphase
  - Prophase
  - Metaphase
  - Telophase
- Q.14 The mitigating stress with high degree of tolerance is called
- Drought escaping
  - Drought resistance
  - Drought avoiding
  - Drought tolerance
- Q.15 The chromosomes which are either differ in numbers or morphology in the male and female are called?
- Sex chromosomes
  - Autosomes
  - Euploidy
  - Accessory chromosomes
- Q.16 The sugars present in DNA and RNA are :
- Glucose and Mannose
  - Lactose and Sucrose
  - Deoxyribose and Ribose
  - Glucose and Maltose
- Q.17 The unsaturated and fatty acid is determined by :
- Saponification No.
  - Iodine No.
  - Both
  - None
- Q.18 Fruits are generally :
- Sodic
  - Alkaline
  - Acidic
  - Neutral
- Q.19 The acid rain is mainly due to the presence of atmospheric gas :
- CO<sub>2</sub>
  - SO<sub>2</sub>
  - NO<sub>2</sub>
  - SO<sub>2</sub> & NO<sub>2</sub>
- Q.20 The Casparian strip is present in
- Epidermis

- b) Endodermis
- c) Cortex
- d) Root Hair

Q.21 The green house effect is cause due to :

- a) Increase in concentration of CO<sub>2</sub> in atmosphere
- b) Incoming UV Rays on the earth
- c) Depletion of ozone layer
- d) Absorptaion of outgoing long wave radiation

Q.22 Cartilages are :

- a) Muscular tissues
- b) Epithelium tissues
- c) Connective tissues
- d) None

Q.23 Most suitable crop for late onset of monsoon to reduce the risk of crop failure is :

- a) Pigeonpea
- b) Soybean
- c) Sunflower
- d) Rice

Q.24 The freezing point depression of a chemical solution is measured by :

- a) Calorimeter
- b) Viscometer
- c) Lysimeter
- d) Osmometer

Q.25 The chemical used for preventing the fruit drop in grape fruits is :

- a) NAA 20 ppm
- b) GA<sub>3</sub> 50 ppm
- c) NAA 100 ppm
- d) None

Q.26 One cusec water discharged for one hour is equal to.....litres

- a)  $101 \times 10^3$
- b)  $106 \times 10^4$
- c)  $125 \times 10^2$
- d)  $101 \times 10^2$

Q.27 Sugarcane somaclone 'Ono' was isolated from

- a) CO 1148
- b) Pindar
- c) BO 54
- d) COS 771

- Q.28 Somatic hybridization produces :
- Cybrids
  - Symmetric Hybrids
  - Asymmetric Hybrids
  - All of these
- Q.29 Which element is not essential for plant cell and tissue culture?
- Ni
  - K
  - Ca
  - P
- Q.30 Which of the following is a ripening hormone?
- Cytokinin
  - Ethylene
  - Auxin
  - Gibberellin
- Q.31 Whiptail is caused by deficiency of :
- Zinc
  - Magnesium
  - Molybdenum
  - Boron
- Q.32 Standard root stock of apple against wooly aphid is:
- Malling-Merton
  - DX-1
  - PT-1
  - None of these
- Q.33 Propping refers to :
- To remove extra suckers
  - Staking of banana stem at the time of fruiting to avoid bending or breaking of stem due to heavy weight of fruits
  - To provide shade to the fruits
  - None of these
- Q.34 Lod score method was developed by:
- Paterson
  - Morton
  - Peltier
  - Rigby
- Q.35 In which fruit Polyembryony is very common?
- Guava

- b) Citrus
- c) Fig
- d) Pomegranate

Q.36 The site of fatty acid metabolism is:

- a) Glyoxysomes
- b) Spherosomes
- c) Plastids
- d) Peroxisomes

Q.37 Which is the saturated fatty acid of the following?

- a) Linoleic acid
- b) Oleic acid
- c) Stearic acid
- d) Arachidonic acid

Q.38 Which of the following nutrient is macronutrient?

- a) V
- b) Cu
- c) Mg
- d) Fe

Q.39 White rust of crucifers caused by *Albugo candida* belongs to class :

- a) Basidiomycetes
- b) Oomycetes
- c) Ascomycetes
- d) Deuteromycetes

Q.40 The pungency of radish is due to :

- a) Solanin
- b) Capsecin
- c) Allicin
- d) None of these

Q.41 Mustard has how many stamens?

- a) 5
- b) 6
- c) 7
- d) 8

Q.42 In photosynthesis, oxygen is released by :

- a) CO<sub>2</sub>
- b) H<sub>2</sub>O
- c) Chlorophyll
- d) None of these

- Q.43 Who founded the cell theory?  
a) Robert Hook  
b) Von Mohl & Nageli  
c) Schwann & Schleiden  
d) Grew & Malpighi
- Q.44 Photorespiration is inhibited by :  
a) 2,4-Dinitrophenol  
b) CMU & DCMU  
c)  $\alpha$ -hydroxy sulphonates  
d) None of these
- Q.45 If  $2n=20$  in a plant, then how many linkage groups are present in this?  
a) 20  
b) 10  
c) 5  
d) 5 or 10
- Q.46 If haploid chromosome number in an organism is 12, what is the chromosome number present in its trisomic?  
a) 11  
b) 13  
c) 25  
d) 23
- Q.47 Mutation was first discovered in:  
a) *Drosophilla*  
b) *Neurospora*  
c) *E. coli*  
d) *Oenothera*
- Q.48 Who used X-rays to cause mutation?  
a) T. H. Morgan  
b) H. J. Mullar  
c) P. Alterberg  
d) H. Auerbach
- Q.49 Most varieties of sugarcane are:  
a) Tetraploids  
b) Triploids  
c) Hexaploids  
d) Aneuploids
- Q.50 In a test cross, the individual is crossed with:  
a) Homozygous dominant individual



- b) Heterozygous individual
- c) Homozygous recessive individual
- d) None of these

Q.51 A yellow seeded true breeding pea plant is crossed with green seeded true breeding plant. F<sub>1</sub> Plants were yellow seeded showing that allele for yellow color is :

- a) Heterozygous
- b) Dominant
- c) Lethal
- d) Epistatic

Q.52 The Commission for Agricultural Costs and Prices came into existence in the year:

- a) 1963
- b) 1965
- c) 1968
- d) 1971

Q.53 Blind hoeing is recommended practice for cultivation of:

- a) Cotton
- b) Tobacco
- c) Sugarcane
- d) None of these

Q.54 Golden rice is a rich source of :

- a) Vitamin A
- b) Vitamin B
- c) Vitamin K
- d) Both Vitamin A & K

Q.55 Which of the following is a monophagous pest of rice crop?

- a) *Helicoverpa armigera*
- b) *Scirpophaga incertulas*
- c) *Cnaphalocrocis medinalis*
- d) *Nilapervata lugens*

Q.56 The virus of Bunchy Top disease of banana is transmitted by:

- a) *Bactrocera spp*
- b) *Pentalonia spp*
- c) *Scirtothrips spp*
- d) None of these

Q.57 Which one is the abiotic disease of rice?

- a) Blast
- b) False smut
- c) Khaira

d) Brown spot

Q.58 Late blight of potato is caused by:

- a) *Phytophthora infestans*
- b) *Albugo candida*
- c) *Peronospora pisi*
- d) *Sclerospora graminicola*

Q.59 In which crop green ear disease occur?

- a) Sorghum
- b) Sugarcane
- c) Pearlmillet
- d) Maize

Q.60 Which of the following is the quarantine pest?

- a) *Trogoderma granarium*
- b) *Rhizopertha dominica*
- c) *Callosobruchus chinensis*
- d) *Sitophilus oryzae*