IBPS SO Exam 2013 **Agricultural Officer Professional Knowledge Paper**

1. A phenomenon wherein a single gene has more than one phenotypic effect is known as

- (A) Pleiotropism
- (B) Epistasis
- (C) Hypostasis
- (D) Duplicate genes
- (E) None of these

2. Which one of the following is a rich source of protein?

- (A) Scytonema
- (B) Spirulina
- (C) Spirogyra
- (D) Stigonema
- (E) None of these

3. Glycolysis is also known as

- (A) Gluconeogencsis
- (B) EMP Pathway
- (C) Hcxose monophosphate shunt
- (D) Photorespiration
- (E) None of these

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4.Rate of photosynthesis is higher in_light.

- (A) White
- (B) Red
- (C) Green
- (D) Blue
- (E) None of these

5. The fruit ripening hormone is

- (A) Abscisic acid
- (B) Cytokinin
- (C) Ethylene

(D) Gibberellin	
(E) None of these	
6. The largest herbarium	i in India located at
(A) New Delhi	
(B) Dehradun	
(C) Kolkata	
(D) Pune	educationobserver.com
(E) None of these	educationobserver.com
7. International Rice Res	earch Institute is in
(A) Hyderabad	
(B) Cuttack	
(C) Kenya	
(D) Manila	
(E) None of these	
3. Obligate anaerobic ba	cteria can
(A) grow without oxyger	n and produce high energy
(B) grow without oxyger	n and produce low energy
(C) have a fermentative	metabolism and a respiratory chain
(D) grow with or withou	tt oxygen and produce medium energy
(E) None of these	
9 . Which one of the follo	owing is the correct food chain ?
(A) Algae – insects – frog	;- peacock - snake
(B) Algae – frog – insects	- snake-peacock
(C) Algae - frog - insects	
D) Algae – insects – frog	g - snake-peacockonobserver.com
(E) None of these	
10 . DNA and RNA are sin	milar to each other because both
(A) have similar sugars	
(B) are nucleotide polym	ers
(C) have similar pyrimid	ines
(D) are double stranded	
(E) None of these	

(A) Azotobacter and Rhizobium

(B) Azolla and Azotobacter
(C) Azolla and Rhizobium
(D) Azotobacter and Nostoc
(E) None of these
12. A sclerotium refers to a modified mycelium which is
(A) an underground structure
(B) a food storing organ educationobserver.com
(C) a conidial type
(D) a hard resting body
(E) None of these
13. In paddy, the type of inflorescence is said to be
(A) Raceme (B) Panicle (C) Thyrsus (D) Cyathium (E) None of these
14. Botanical name of Pearl millet (Bajra) is
(A) Avena sativa
(B) Zea mays
(C) Eleusine coracana
(D) Pennisetum typhoides
(E) None of these
15 . Which is the matching set in classification ?
(A) Neries, planaria, roundworm, earthworm
(B) Millipede, crab, centipede, cockroach
(C) Starfish, jellyfish, cuttlefish, octopus
(D) Sea-urchin, lobster, leech, locust
(E) None of these
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16. The insects excrete in the form of uric acid because(A) most of them are termestric!
(A) most of them are terrestrial
(B) the circulatory system is open(C) the blood is colourless
(D) most of them are aquatic (E) None of these
(E) None of these
17. Measurement of the rate of oxygen consumption in unit volume of water over a period of time is carried
out to determine

- (A) Fermentation
- (B) Biogas generation

(C) Biosynthetic pathway (D) Biological oxygen demand (E) None of these **18**. Biosphere is made up of (A) organism (B) organism and lithosphere (C) organism, lithosphere and atmosphere (D) organism, lithosphere, atmosphere and hydrosphere (E) None of these 19. Sudden mass death of fishes from oxygen depletion is more likely in the (A) Eutrophic lakes (B) Oxalotrophic lakes (C) Oligotrophic lakes (D) Mesotrophic lakes (E) None of these **20**. The sanctuary having maximum number of rare animals is (A) Kaziranga National Park (B) Corbett National Park (C) Manas National Park (D) Dudhwa National Park (E) None of these 21. The famous 'Chipko Movement' is associated with (A) S.L. Bahuguna (B) Indira Gandhi educationobserver.com (C) Jawaharlal Nehru (D) H.N. Bahuguna (E) None of these **22**. Red data book is famous for (A) Extinct animals (B) Endangered animals and plants (C) Endangered animals (D) Important wildlife (E) None of these

23. Bottom layer of deep fresh water habitat is

(A) Hypolimnion		
(B) Epilimnion		
(C) Thermocline		
(D) Metalimnion		
(E) None of these		
24. International Convention on Biological Diversity was ratified in the year		
(A) 1971 (B) 1994 (C) 1973 (D) 1990 (F) None of these		
(E) None of these		
25 . Which is considered as biological paradise in India ?		
(A) Gulf of Mannar		
(B) Nilgiri Bioreserve		
(C) Sundarbans		
(D) Nanda Devi		
(E) None of these		
26. National Bureau of Fish Genetic Resources (NBFGR) is located in		
(A) Chennai (B) New Delhi (C) Lucknow (D) Bangalore (E) None of these		
27 Which of these is often called as 'cell organiser' ?		
(A) Nucleus (B) Centriole (C) Nucleolus (D) Ribosome (E) None of these		
28. The power house of the cell is		
(A) Nucleus		
(B) Ribosome		
(C) Mitochondria		
(D) Lysosome		
(E) None of these educationobserver.com		
cuddulohobsch verhoom		
29. Hardness of woody tissue is due to		
(A) Silica (B) Lignin (C) Cellulose (D) Suberin (E) None of these		
30 . Pea seeds will germinate best if soaked in a jar containing		
(A) H_{2}		
(B) 0 ₂		
(C) N ₂		
(D) CO_{2}		
(E) None of these		

31. The shape of the growth curve is **usually**

(A) Inverted bell

(B) Linear

(C) Sigmoid

(D) Zig-Zag

(E) None of these

32. The forces that can change the frequency of an allele in a population are

(A) forward mutation, gene conversion, neutral evolution and recombination

(B) selection, mutagenesis, migration, inbreeding and random genetic drift

(C) dominance, family selection, fitness and diversification

(D) gene interaction, gene transfer, gene mutation and outbreeding

(E) None of these

32. The anticodon region is present in

(A) r-RNA

(B) hn-RNA

(C) m-RNA

(D) *t*-RNA

(E) None of these

33. In reptiles and birds, nitrogen is excreted in the form of

(A) Urea

(B) Uric acid

(C) Ammonia

(D) Lipids

(E) None of these

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34. Which of the following techniques are used in assaying monoclonal antibodies ?

(A) Flow cytometry

(B) PAGE

(C) HPLC

(D) Scintillation counter

(E) None of these

35. Which of the following synthetic polypeptides will form a triple helix '.'

(A) (Pro-Gly)n

(B) (Phe-Gly-Gly)n

(C) (Pro-Gly-Gly)n

(D) (Gly-Pro-Pro-Gly)n
(E) None of these
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36. World Health Organisation (WHO) announced the eradication of small pox as a disease in the year
(A) 1988
(B) 1986
(C) 1977
(D) 1979 educationobserver.com
(E) None of these
38. A disease that attacks many in a community simultaneously is
(A) an epidemic
(B) a noscomial infection
(C) a secondary infection
(D) a bacteremia
(E) None of these
39. The term "Microbiology" was coined by
(A) Antonie van Leeuwenhoek
(B) Robert Koch
(C) Louis Pasteur
(D) Julius Richard Petri
(E) None of these
40. Tumour causing viruses are known as
(A) Oncogenic viruses
(B) Para viruses
(C) Tungro viruses (D) Variola viruses education observer com
(D) Variola viruses educationobserver.com (E) None of these
41. Red orange colour in saffron is due to
(A) Xanthophyll
(B) Chlorophyll
(C) Crocetin
(D) Polyphenols
(E) None of these
42. Choose the correct answer. Beaten rice is also known as

(A) Flaked rice

`	3) Polished rice	
`	C) Puffed rice	
`	D) Popped rice	
1)	E) None of these	
А	3. Spice bag is usually used in the processing of	
	A) Sauce	
`	, Norma	
•	educationobserver.com	
`	D) Nectar	
`	E) None of these	
(*		
4	4. Cereals are	
(4	A) deficient in lysine and rich in methionine	
(I	a) rich in lysine and deficient in methionine	
(0	C) rich in lysine and methionine	
(I	D) deficient in lysine and methionine	
(F	E) None of these	
4	5. Roasting coffee beans improves the content of	
(4	A) Pantothenic acid	
(I	3) Niacin	
(0	C) Riboflavin	
(I	D) Thiamine	
(F	E) None of these	
	6. Annual loss of agricultural produce in India is more due to different factors. Find out the factors in correct	
	equence based on the higher degree of loss to lower degree.	
	A) Weeds followed by insects followed by diseases server.com	
`	3) Insects followed by diseases followed by weeds	
`	C) Diseases followed by weeds followed by insects	
`	D) Weeds followed by diseases followed by insects	
(H	E) None of these	
Δ	7. The crop grown for grain, green manure and fodder	
	(A) Until (B) Chick pea (C) Red gram (D) Cow pea (E) None of these	
(2	(b) chick pea (c) hea grain (b) cow pea (b) none of these	
4	8. Seed of rice is called	

(A) Drupe (B) Berry (C) Caryopsis (D) Pod (E) None of these

49. Machine used for dehusking of pulses is

(A) energy roll dehusker

(B) rubber roll dehusker

(C) centrifugal dehusker

(D) under-runner disc sheller

(E) None of these

50. The size of a tractor Tyre may be represented as

(A) section height x rim width

(B) section height x rim diameter

(C) section thickness x rim diameter

(D) section radius x rim width

(E) None of these

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