VIDYASAGAR UNIVERSITY MIDNAPORE

COMMON ENTRANCE TEST FOR PG ADMISSION, 2019

Question Booklet No. 1815190

Full Marks : 200

Subject: BOTANY

Question Booklet Series:

Subject Code No.: 18

Answer all the questions. Each question has the same weightage.

Read the following instructions carefully before you start answering.

INSTRUCTIONS

1. The question Booklet is printed in four Series e.g. (A), (B), (C) and (D). The candidate has to indicate the Series of the question booklet in the space provided in the OMR Answer Sheet . For example, if the candidate gets Series (A) booklet, he / she has to indicate on the front side of the OMR Answer Sheet with Black ink ball point pen only as indicated below:



- 2. There are 50 questions inside this question booklet. Immediately after you have been instructed to open this question booklet, ensure that any page / question is not missing / not printed / torn /repeated. In case you find any defect anywhere in the question booklet, immediately get it replaced by the Invigilator.
- 3. Each question carries 4 marks. 1(one) mark will be deducted for each wrong answer(negative marking).
- 4. Write your Form No and put signature in the space provided.
- 5. Before answering, write down the necessary information on the OMR Answer Sheet as per your Application Form and Admit Card in the specific space provided.
- 6. With each question you will find 4 possible answers marked by the letters A, B, C & D. Read each question carefully and find out which answer, according to you, is correct / most appropriate / best. Indicate your answer by darkening the appropriate circle completely in the OMR Answer Sheet corresponding to the question. For marking answers, use black ink ball pen only. If 'B' is the correct answer in a case, mark as below:
- 7. Do not fold or make any stray marks on the OMR Answer Sheet.
- 8. You can use the blank space of the last page for rough work. Do not tear it off from the Question Booklet.
- 9. After the examination has been over, you must submit OMR Answer Sheet to the Invigilator.
- 10. OMR Answer Sheet is designed for computer evaluation. If you do not follow the instructions given above and shown in the OMR Answer Sheet, it may make evaluation by computer difficult. Any resultant loss to the candidate on the above account shall be of the candidate only.
- 11. No candidate shall be allowed to use Mobile phone. Log tables or Calculator of any description in the examination hall/room.

1.The ratio between regi	onal and local species di (B) Beta diversity	versity is measured as - (C) Gama diversity	(D) Delta diversity
			(D) Delta diversity
(B) Thick walls, no inte(C) Thick walls, many i	bundle sheath cells have ntercellular spaces and ne ercellular spaces and sev intercellular spaces and fr cellular spaces and man	o chloroplasts reral chloroplasts few chloroplasts	
3. The end product of gly (A) Water	colysis in absence of O ₂ (B) Pyruvate	is- (C) Lactate	(D) Carbondioxide
4. Hydrolysis of lactose y (A) Galactose and fru (C) Mannose and fru	ıctose	(B) Galactose and glu	
5. Which one of the follow (A) Pollen exine	wing is resistant to enzyr (B) Wood fibre	ne action? (C) Cuticle	(D) Cork
		(C) Gallole	(D) COIK
6. Raphanobrassica is ar (A) Autotetraploid	n example of (B) Trisomic	(C) Hexaploid	(D) Allotetraploid
7-Both heterospory and (A) <i>Blechnum</i>	circinate ptyxis occur in - (B) Lycopodium	(C) Cycas	(D) Dryopteris
8. International Rice Rese (A) Manila, Philippine (C) Beijing, China		ituated in (B) Pusa, India (D) Kualalampur, Mala	ayasia
9. The most widely used (A) Poly ethylene glyo (C) Sorbitol	chemical for protoplast fi col (PEG)	usion, as fusogen is (B) Manitol (D) Mannol	
10. Source of Ergotamine (A) Bauhinia purpures (C) Claviceps purpure	a	(B) Tephrosia purpure (D) Butea monosperm	
11. Which of the following	acids is a derivative of c	arotinoids -	
(A) Abscisic acid (C) Indole 3-acetic ac		(B) Gibberellic acid (D) Indole butyric acid	
(A) Inverted pyramid of (C) Upright pyramid of	of number	(B) Inverted pyramid of (D) Inverted pyramid of	
13. Which one of the follow (A) Valine	wing amino acid has a sir (B) Alanine	ngle genetic code? (C) Tryptophan	(D) Serine
(A) Grana of chloroplas (B) Stroma of chloroplas (C) Stroma of chloropla (D) Stroma of chloropla	sts and peroxysomes asts asts and peroxysomes	ctions occur in –	
5. Which of the following (A) Eco R1	is not a restriction endon (B) DNA ligase	uclease? (C) Bam H1	(D) Hind III

 16. The causal organism of early blight of potato is - (A) Synchytrium endobioticum (C) Ustilago nuda 	(B) Phytophthora infestans (D) Alterneria solani			
17. When two or more authors publish a new species or propose a new name, their names are linked using the epithet -				
(A) in (B) ex	(C) et	(D) emend		
18. Cyclic photophosphorylation results in the formation (A) ATP, NADPH, O ₂ (C) ATP	tion of - (B) NADPH (D) ATP, NADPH			
19-The first earth summit was held at (A) Nairobi, Kenya (C) Reo de Janeiro, Brazil	(B) Stockholm, Sweder (D) Johannesberg, Sou			
20. The plant group dominated during Jurassic perio (A) Coniferales (B) Cycadeoidales	d is (C) Ginkgoales	(D) Gnetales		
21. Which one is a non-ligulate pteridophyte? (A) Selaginella (B) Isoetes	(C) Lepididendron	(D) Lycopodium		
22. Internal tissue system is best preserved in – (A) Compression-impression fossil (C) Petrified fossil	(B) Mould-cast fossil (D) Mummified fossil			
23. A species in tropical rain forest which acts as a kernel (A) Shorea sp. (B) Tectona sp.	key-stone species is – (C) <i>Ficus</i> sp.	(D) Dalbergia sp.		
24. Redness of red sea is due to (A) Red colour present in the sea water (C) Red algae or <i>Batrachospermum</i>	(B) Trichodesmium erys	thrium		
 Which one yields oil from seeds and orange dye (A) Helianthus annuus (C) Carthamus tinctorius 	from petals? (B) Calendula officinalis (D) Brassica nigra			
26. Which stage of <i>Puccinia</i> is found on its alternative (A) Teleutospore (B) Pycnidiospore	re host? (C) Uredospore	(D) Basidiospore		
27. Which of the following is a second messenger? (A) Inositol 1,4,5-triphosphate (C) Phospholipase C	(B) Diacyl glycerol (D) Both A and B			
28. The pectin digesting microbe utilized in flax/jute (A) Clostridium felsineum (C) Bacillus megatherium	retting is – (B) Mucor humilis (D) Aspergillus niger			
²⁹ - Which one of the following algae is a source of ic (A) <i>Polysiphonia</i> (B) <i>Laminaria</i>	odine? (C) <i>Nostoc</i>	(D) Diatoms		
³⁰ Taq polymerase is used in PCR because of its				
(A) Low thermal stability (C) High speed	(B) High fidelity (D) High thermal stabili	ty		

31. The dried flower buds use (A) Cardamom	ed as spices in – (B) Clove	(C) Saffron	(D) Sinnamon	
32. Climber of palm family (Al (A) Gloriosa superba (C) Calamus rotang	recaceae) is –	(B) Quisqualis indica (D) Coccinia grandis		
33. Sea-lettuce is the commo (A) Laminaria	n name for (B) <i>Sargassum</i>	(C) Batrachospermun	(D) Ulva	
34. In Pea, the type of placen (A) Axile	tation is – (B) Marginal	(C) Basal	(D) Free centrál	
35. In germinating seeds, fatty (A) Peroxysomes	y acids are degraded e (B) Mitochondria	xclusively in (C) Glyoxysomes	(D) Thylakoids	
 36. Which of the following is an example of DNA co (A) Tobacco mosaic virus (C) Cauliflower mosaic virus 		ontaining plant virus? (B) Potato mosaic virus (D) Tomato mosaic virus		
37 Morphine is obtained from (A) Aconitum heterophyll (C) Rauwolfia serpentine	A) Aconitum heterophyllum		(B) Papaver somniferum (D) Cinchona officinalis	
38. Physiologically active form (A) P730/Fr	n of Phytochrome is - (B) P660/Pr	(C) P700	(D) P680	
39. Raphides are the crystals of: (A) Calcium oxalate (C) Calcium phosphate		(B) Calcium sulphate (D) Calcium carbonate		
^{40.} The age of early vascular (A) Ordovician (plant is B) Siluro-Devonian	(C) Carboniferous	(D) Permian	
41. Double fertilization was dis (A) Hofmeister (scovered by B) Nawaschin	(C) Moore	(D) McClintock	
42. Air pores are absent within (A) Marchantia (n the thallus of – B) Conocephalum	(C) Dumortiera	(D) Riccia	
43. Most of the antibiotics hav (A) They kill all bacteria w (B) Viruses have no metal (C) Viruses form endospor (D) Viruses are too small i	hich form host of viruse polism of their own res			
44. An important monocot me (A) <i>Rhizophora mucronal</i> (C) <i>Avicennia marina</i>		etation – (B) Sonneratia apetala (D) Nypa fruticans		
45. Azotobacter and Beijerinch (A) Symbiotic nitrogen-fix (C) Ammonifying bacteria	cers	(B) Non-symbiotic nitrog (D) Disease causing bac		
46. The centre of origin of pota (A) India		(C) China	(D) South America	

47. Edible part of litchi is -

(A) Fleshy thalamus

(B) Fleshy aril

(C) Mesocaro

(D) Pericarp

48. Two bio-diversity hot spots of India are -

- (A) Eastern Himalayas and Western Ghats
- (B) Western Himalayas and Eastern Ghats
- (C) Eastern Himalayas and Eastern Ghats
- (D) Western Himalayas and Western Ghats

49. Boron in green plants assists in -

- (A) Activation in enzyme
- (C) Photosynthesis

- (B) Acting as enzyme co-factor
- (D) Sugar transport

50. DMSO (Dimethyl sulfoxide) is used as

(A) Gelling agent

(B) Alkylating agent

(C) Cryoprotectant

(D) Chelating agent