SEAL

COMMON P. G. ENTRANCE TEST - 2024 (CPET-2024)

Test Booklet No.:

00003

Subject Code: 46

Hall Ticket No. :

Subject : WILDLIFE AND BIODIVERSITY CONSERVATION

TEST BOOKLET

Time Allowed: 60 Minutes

Full Marks: 80

: INSTRUCTIONS TO CANDIDATES :

- The Test Booklet contains 15 pages including the cover page and 80 (Question Nos. 1 to 80) multiple choice questions.
- 2. DO NOT break open the seal of the Test Booklet until the invigilator instructs to do so.
- The candidates must check discrepancy, if any (like up-printed or torn or missing pages or missing questions) in the Test Booklet immediately after breaking the seal of the Test Booklet. If detected, the invigilator may be requested to replace the same.
- Candidates are required to fill up and darken the Hall Ticket No., Test Booklet Serial No. and OMR Answer Sheet Serial No. in attendance sheet carefully. Wrongly filled in OMR Answer Sheet is liable for rejection.
- Each question has four choices / answers marked (A), (B), (C), (D). Candidate has to select the
 most appropriate choice / answer to each question and darken the oval completely against the
 question number provided in the OMR Answer Sheet.
- Indicate only one choice / answer from the options provided by darkening the appropriate oval in the OMR Answer Sheet. More than one response to a question shall be treated as a wrong answer.
- Use only Black Ball Point Pen for darkening the oval for answering.
- All the questions are compulsory and they carry equal marks. The total marks scored by a candidate depends on the number of correct choices / answers darkened in the OMR Answer Sheet. There will be no negative marking for wrong answers.
- No candidate shall be allowed to leave the Examination Hall / Room till all OMR Answer Sheets have been collected by the invigilator.
- 10. On completion of the entrance test, the original OMR Answer Sheet be handed over to the invigilator. Candidates are allowed to take the second copy of the OMR Answer Sheet along with the used Test Booklet for reference.
- Candidates are not allowed to carry any personal belongings including electronic devices such as scientific calculator, cell phones, headphones, earbuds, or any other type of devices that allow communication of any kind inside the Examination Room / Hall.
- 12. The candidates are advised not to scribble or make any mark on the OMR Answer Sheet except marking the answers at the appropriate places and filling up the details required Rough work, if any, may be done in the blank sheet(s) provided at the end of the Test Booklet.
- 13. Any malpractice / use of unfair means will lead to your disqualification from the entrance test / admission process and may also lead to appropriate legal action as deemed fit.

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO

GO - 34/12

(Turn over)

GOMMON & G. ENTRANCE TEST - 20 24 (OPET-2024)

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ENSTRUCTIONS TO CANDIDATES

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(2) (Continued)

GO - 34/12

1.	Artificial systems gave equal weighta	e to vegetative and s	exual characteristics.
	This is not acceptable because often_	characters ar	e more easily affected
	by environment.	Leyes	nuoqinob (D)
	(A) Vegetative	(B) Sexual	llet sal to unids?
	(C) Anatomical	(D) Physiologic	
2.	Natural systems of classification diffe	from artificial system	in:
	(A) Employing only one floral trait	folial only in marine w	syartyer(T (O)
	(B) Employing only one vegetative t		
	(C) Bringing out similarities and dis	milarities	
	(D) Developing evolutionary traits	wing organisms which	
3.	Batrachospermum is a:	e#0	medaned (A)
0.	(A) Red algae of sea	(B) Brown alga	ie (3)
	(C) Blue algae	m beareailt	of fresh water
	maslaby(3 (8)		'autoeloul' (A)
4.	Phycoerythrin, Chlorophyll a and Chlo	ophyll d are characteris	stics of:
	(A) Phaeophyceae	(B) Xanthophyo	ceae
	(C) Chlorophyceae	(D) Rhodophyo	ceae
5.	Seed plants are all:	, se	
	(A) Heterosprous	(B) Dioecious	13 Waterreaches I
	(C) Monoecious	(D) Homospore	
6.	Megasporophyll of gymnosperm is ho	pologous to :	(C) Transpirate
	(A) Stamen	(B) Carpel	
	(C) Sepal	(D) Petal	redificus (A)
7.	Stinging capsules (nematocysts) are	undin : -	(B) Flants live
	(A) Wasp and honeybee	(B) Scorpion a	
	(C) Sea pen and sea fan	(D) Cactus and	d Venus fly trap
GO	-34/12	3)	(Turn over)

8.	vvna	at is common among sliver tish, scorp	oion, cra	ab and noney bee ?				
bei	(A)	Jointed legs	(B)	Metamorphosis				
	(C)	Compound eyes	(D)	Poison glands				
9.	Whi	ch of the following statements is corre	ect for s	ponges without exception?				
	(A)	They all have calcareous spicules		ABOURDIBAL (3)				
	(B)	They have high regenerative power		Soft and a system - of classifica				
	(C)	They have found only in marine water	er					
	(D)	They are all radially symmetrical		(B) Employing anly one var				
10.	Amo	Among the following organisms which is a completely non parasitic form?						
	(A)	Sea anemone	(B)	Tapeworm				
	(C)	Leech	(D)	Mosquito				
11.	Ribo	osome is synthesised in :		tisa to eath, both (A)				
	(A)	Nucleolus	(B)	Cytoplasm				
	(C)	Mitochondria	(D)	Golgi complex				
12.	Cell organelle extracted from endosperm of germinating Castor beans are :							
	(A)	Glyoxysomes	(B)	Peroxisomes				
	(C)	Mitochondria	(D)	Chloroplast 15 10 10 10 10 10 10 10 10 10 10 10 10 10				
13.	Water reaches the top of a plant due to:							
	(A)	Root pressure	(B)	Capillarity				
	(C)	Transpiration	(D)	Diffusion Wilder Company (A)				
14.	In which of the following plants there will be no transpiration?							
	(A)	Aquatic submerged plants		160.15 (万)				
	(B)	Plants living in deserts		vardamien) obsedas prograis. A				
	(C)	Aquatic plants with floating leaves		estivenori bita gar /v (A)				
	(D)	Plants growing in hilly regions		hal rasions docided (1)				
GO	- 34/	12 (4)		(Continued)				

15.	Num	ber of thylakoids in a granum is:		name to explosive element 54.
	(A)	5-10	(B)	2-100
	(C)	100-150	(D)	150-200
16.	NH ₃	releases from :		re no day ara anigno. (2)
	(A)	Photorespiration	(B)	Dark respiration
	(C)	CAM	(D)	Light reaction
17.	The	ultimate electron acceptor of r	espiration	in an aerobic organic organism
	is:	5 - 95 and 0 1 173)		
	(A)	Cytochrome	(B)	Oxygen declared legals at 1
	(C)	Hydrogen	(D)	Glucose (A)
18.	Agla	and not associated with the alime	ntary canal	
	(A)	Pancreas	(B)	Adrenal a social distriction dis-
	(C)	Liver	(D)	Salivary glands (A)
19.	Brui	nner's gland is present in :		
	(A)	Liver	(B)	Duodenum
	(C)	Oesophagus (6)	(D)	Stomach (A)
20.	In th	ne stomach, gastric acid is secrete	ed by the :	
	(A)	Parietal cells	(B)	Peptic cells
	(C)	Acidic cells	(D)	Gastrin secreting cells
21.	Pro	staglandins are:		28 Persistent indocute in this
	(A)	Amino acid	(B)	
	(C)	Fatty acid	(D)	
GC) – 34	/12	(5)	(Turn over

22.	2. The effectiveness of an enzyme is affected least by:			
	(A)	Temperature		
	(B)	Concentration of the subs	trate	
	(C)	Original activation energy	of the system	man a seed to HM - Or
	(D)	Concentration of the enzyr	me	(A) Photorespharion
23.	Duri	ing gamete formation the er	nzyme recombina	
	(A)	Metaphase - I	(B)	Anaphase – II
	(C)	Prophase – I	(D)	Prophase – II
24.	Zyg	otic meiosis is characteristi	c of:	(A) Cytochiame
	(A)	Fucus Stage (6)	(B)	Funaria (appropriate (a)
	(C)	Chlamydomonas	(D)	Marchantia
25.	In H	umberger's phenomenon, v	which ion is transp	ported?
	(A)	Mg* abnato visvita? (u)	(B)	Na*
	(C)	Cl	(D)	
26.	Poll	en grains are well preserve	d as fossils beca	use of presence of :
	(A)	Sporopollenin	(B)	Cellulose
	(C)	Lignocellulose	(D)	Pectocellulose
27.	Whi	ch is the following is a 3n str	ructure?	
	(A)	Zygote	(B)	Apodals
	(C)	Egg apparatus	(D)	Primary endosperm nucleus
28.	Pers	sistent nucellus in the seed i	s known as :	21. Prostaglanduts at a
	(A)	Tegmen (B)	(B)	Chalaza
	(C)	Perisperm	(D)	Hilum time (its (it))
GO	- 34/	12	(6)	(Continued)

29. Identical twins arise from:					
	(A)	Single egg		(A) Decrigero National Park	
	(B)	Two eggs		(G) Manas National Park	
	(C)	Either from one egg or two egg	s direction	Silent Valley has been presen	
	(D)	Neither from one egg nor from t	wo eggs	(A) Rare plants and animals	
30.	The	secretions of one of the follow	ving are ric	h in fructose, calcium and some	9
	enzy	mes: lo claisil	diversity oc	The Convention on Biological	0.00
	(A)	Male accessory glands	(B)	Female accessory glands	
	(C)	Salivary glands	(D)	Liver askithe St. (D)	
31.	Han	gul project was started by Govt.	to save Ha	ngul (Cervus hangul) in 1970. The	•
	sand	ctuary where it is started in:		(A) Tiger	
	(A)	National Chambal Sanctuary	(B)	Dachigam Sanctuary	
	(C)	Corbett National Park	(D)	Bandipur National Park	
32,	Whi	ch group of vertebrates comprise	es highest n	umber of endangered species ?	
	(A)	Mammals (d)	(B)	Fishes 298 BIW. (0)	
	(C)	Reptiles	(D)	Birds material areas 0	
33.	Rec	ently extinct bird is:	ind engerni	(A) Rich species diversity o	
	(A)	Carolina para keet	(B)	Peacock sounder (8)	
	(C)	Kirtland webier	(D)	Reed bunting	
34.	Arbo	pretum is:		(D) Rich species diversity a	
	(A)	A forest patch	cies aleng	1. Rate of replacement of spe	
	(B)	A piece of social forestry		beilea	
	(C)	Botanical garden with trees and	shrubs	(A) Alpha diversity	
	(D)	Botanical garden with cacti and	herbs	(C) Comma diversity	
GO	-34/	12	(7)	(Turn over)

35.	Rare	e animal Hispid hare (Caprologous ni	spiaus) is found in :	
	(A)	Dachigam National Park	(B)	Kaziranga National Park	
	(C)	Manas National Park	(D)	Kanha National Park	
36.	Siler	nt Valley has been preserved as it has	i e ow	(C) Ethier from one egg or t	
	(A)	Rare plants and animals	(B)	Valuable timber plants	
am	(C)	Recreational value	(D)	Natural forests	
37.	The	Convention on Biological diversity co	nsists o	of: engine en	
	(A)	45 articles of plame 1 (8)	(B)	42 articles	
	(C)	52 articles	(D)	75 articles in the same of the	
38.	Whi	ch animal is the symbol of the world w	ildlife f	und? Hang it project was start? bnu	
	(A)	Tiger	(B)	Hombill I and wy is the second	
	(C)	Giant panda 180 456 3 (6)	(D)	White bear	
39.	Bish	nnoi tribe of Rajasthan is known for the	e prote	ction of which animal?	
	(A)	Great Indian Bustard	(B)	Black buck	
	(C)	Wild ass	(D)	Hungul CAMPAN (AV.)	
40.	Mai	n criteria for determining a hotspot ar	e:	(C) Replace	
	(A)	Rich species diversity and endemic	specie	Receiptly extinut bild is 89	
	(B)	Rich species diversity and genetic of	diversit	(A) Carolina para keet	
	(C)	Number of endemic species and inc	crease	d aforestation	
	(D)	Rich species diversity and increase	d afore	estation	
41.	Rat	e of replacement of species along	a grad	lient of habitats / communities	is
	call	ed:			
	(A)	Alpha diversity	(B)	Beta diversity	
	(C)	Gamma diversity	(D)	Omega diversity	
GO	- 34/	/12 (8)		(Continued	1)

42.	Ovar	y is obliquely placed in family	elida and Molii	50 Connecting link between Anne
	(A)	Asteraceae (St.	(B)	Ranunculaceae
	(C)	Solanaceae	(D)	Brassicaceae
43.	The	flowers in a cyathium resemb	le the ray flores	ts of sunflower are being:
	(A)	Sessile	(B)	Imperfect (A)
t	(C)	Neuter (C)	(D)	Bisexual
44.	Ivan	Pavlov carried out experimen	ts which were	mainly concerned with:
	(A)	Cardian reflexes	(B)	Simple reflexes
	(C)	Conditional reflexes	(D)	Origin of life
45.	Whi	ch of the following is a postzy	gotic mechanis	sm to prevent hybridization?
	(A)	Temporal isolation	(B)	Behavioural isolation
	(C)	Mechanical isolation	(D)	
46.	Insig	ght learning is commonly seen	n in :	(V) Migration
	(A)	Invertebrate	(B)	Reptiles
	(C)	Birds	(D) deplemen	Mammals
47.	The	animals having notochord the	roughout life is	(B). Control of radioactive wa
	(A)	Fish		Amphioxus
	(C)	Snakes	alasion to 1(D)	Birds (G)
48.	Inse	ects have:	ost stable eco	Which of the following is the m
	(A)	2 pairs of legs	(B)	3 pairs of legs
	(C)	4 pairs of legs	(D)) 1 pair of legs
49.	Isin	glass is prepared from :	e ne ni fevel aii	Hops of joying matter at a tropic
	(A)	Ichthyophis Auto-1	(B)) Lungs antoied (A)
	(C)	Fishes gotto uniboate (O	(D) Lizards (O)
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50.	Con	necting link between Annelid	a and Mollusca	Gvary is obliquely placed in rail				
	(A)	Peripatus (6	(B)	Neopilina				
	(C)	Proterospongia	(D)	Archaeopteryx				
51.	Bio-	energy is obtained from:	rable the ray fit	The flowers in a cyamium rese	83			
	(A)	Petroleum	(B)	Natural gas				
	(C)	Biomass	(D)	Synthetic fuel				
52.	Geo	metric representation of age		haracteristic of :	, A.M			
	(A)	Biotic community	(B)	Population				
	(C)	Landscape	(D)	Ecosystem				
53.	The	factor which does not determ						
	(A)	Mortality Marie phone ((B)	Emigration				
	(C)	Migration	(D)	Immigration				
54.	Montreal Protocol is associated with :							
	(A) Control of emission of ozone depleting substances							
	(B) Control of radioactive wastes							
	(C)	Control of desertification		dail ou				
	(D)	Protection and managemen	nt of forests					
55.	Which of the following is the most stable ecosystem?							
	(A)	Mountain perio misu 2 (8)	(B)	Forest and adaption (A)				
	(C)	Desert age to say to (a)	(D)	Ocean apulso mag & (ca)				
56.	Mass	s of living matter at a trophic	level in an area	at any time is called:				
	(A)	Detritus apriu (8)	(B)	Humus and overlation (Adv.				
	(C)	Standing state (0)	(D)	Standing crop				
GO-	-34/1	2	(10)	(Continu	ed)			

57.	VVhic	ch step is required for bette	survivai oi numa	in being ! manag maren !
	(A)	Conservation of wildlife	(B)	Afforestation
	(C)	Ban on mining	(D)	Reduced utilisation of resources
58.	Rare	endangered and endemic	taxa can be foun	d intact and flourishing in :
	(A)	Sacred groves	(B)	Buffer zone
	(C)	Tropical forests	(D)	Temperate forests
59.	Ende	emic plants are those plant	s which are :	
	(A)	Cosmopolitan in distributi	on (B)	Restricted to certain area
	(C)	Arctic region	(D)	Grigarious in habit
60.	In wi	Idlife Forensics, identificati	on of animals do	ne by:
	(A)	Grouping	(B)	Feathers AMA 80
	(C)	Twigs openion (a)	(D)	Pug marks
61.	Тор	roduce 400 seeds, the nur	nber of meiotic d	ivisions required will be:
	(A)	400 aus gnionsupes	(B)	200 Cemmonly used vectors
	(C)	500 DAY DIN OAB (9)	(D)	800 ANG-T (A)
62.	X-lir	nked recessive gene is:		englished (d) Expression Veolors
	(A)	Always expressed in mal	e (B)	Always expressed in female
	(C)	Lethal	(D)	Sub-lethal
63.	Cho	oose the chromosome, in a		esses least number of genes :
	(A)	21st chromosome	(B)	Autosome
	(C)	X-chromosome	(D)	Y-chromosome
64.	Acc	ouple has two daughters. V	Vhat is the probal	oility that the third child will also be a
	fem	ale? I faunched book val		71. Which of the tollowing brok
	(A)	25% ofsmot (8)	(B)	50% (A)
	(C)	75% -yoffeQ (0)	(D)	100%
GC	-34	/12	(11)	(Turn over)

65.	The	term genome denotes :		AND DESIGNATION AS GOLD AND ARE TO ARE		
	(A)	Haploid set of chromosomes	(B)	Bivalent		
2071	(C)	Monovalent	(D)	Diploid chromosomal set		
66.	The	basis of DNA finger printing is:	diane	turn und Geneght und Stein der Aler-		
*	(A)	The double helix	(B)	Errors in base sequence		
	(C)	Polymorphism in sequence	(D)	DNA replication		
67.	PCR	and Restriction Fragment Length Pol	ymorp	ohism are the methods for :		
	(A)	Study of enzymes	(B)	Genetic transformation		
	(C)	DNA sequencing	(D)	Genetic fingerprinting		
68.	DNA	replication in bacteria occurs :				
	(A)	Within nucleolus	(B)	Prior to fission		
	(C)	Just before transcription	(D)	During S-phase		
69.	Com	monly used vectors for human genom	e seq	uencing are:		
	(A)	T-DNA	(B)	BAC and YAC		
	(C)	Expression Vectors	(D)	T/A cloning vectors		
70.	The association of histone H ₁ with a nucleosome indicates that:					
	(A)	DNA replication is occurring		HEAD AT		
	(B)	The DNA is condensed into a chroma	atin fib	re		
	(C)	The DNA double helix is exposed		annion man y Pa		
	(D)	Transcription is occurring		a Principal Security Department of the Security Security		
71.	Whic	ch of the following crops are not infect		Agrobacterium tumefaciens?		
	(A)	Cereals (4)	(B)	Tomato Mac (A)		
	(C)	Soyabean (9)	(D)	Cotton 6087 (G)		
GO	- 34/1	12 (12)		(Continued)		

72.	2. Which bacterium is known as "natural genetic engineer?					
	(A)	E. coli	(B)	Bacillus globigli		
	(C)	Arthrobacterium luteus	(D)	Agrobacterium tumefaciens		
73.	In Po	CR, annealing is done at:	naripolori	90. Which is always present to p		
	(A)	94°C 100 (a)	(B)	40-60°C		
	(C)	72°C	(D)	4°C (0)		
74.	Aga	rose, a chemical used in gel electr	ophoresis	s is extracted from:		
	(A)	E. coli bacterium	(B)	Bacillus thuringensis		
	(C)	Agrobacterium tumifaciens	(D)	Sea weeds		
75.	For	micarium is the term used for nest i	n which o	f the following?		
	(A)	Ants	(B)	Termites		
	(C)	Honey bees	(D)	Birds		
76.	The	genetically adapted local populati	ons of a s	pecies which differ from each other		
	ont	the basis of morphological and phy	siologica	I characters, are termed :		
	(A)	Ecotypes	(B)	Ecotones		
	(C)	Demes	(D)	Ecolines		
77.	Vel	hulst-Pearl logistic curve is also kno	own as:			
	(A)	J-shaped curve				
	(B)	S-shaped curve				
	(C)	Both for J and S shaped curves				
	(D)	Neither for J-shaped nor for S-s	haped cu	rves		
78	. Th	e relationship between gross prima	ry produc	tivity (Pg) and net primary productivity		
	(P	n) is represented by the equation:				
	(A	$P_n = P_g - R$	(B	$P_g = P_n - R$		
	(C	$P_n = P_g + R$	(D	$P_{g} = P_{n} \times R$		
G	0 - 3	4/12-	13)	(Turn over		

79. Whi	ch of the following are	termed 'key industry'	animals?		
(A)	Producers	(B)	Primary consi	umers	
(C)	Secondary consumer	rs. (D)	Decomposers	s one (a)	
80. Whi	ch is always present in	photochemical smo	g? Tobia ma		
(A)	Ozone	(B)	CO ₂	o ie "w	
(C)	SO ₂	(D)	CH ₄	10,100	
		area o fue to ale les	ni Vead legimen		
	Broillus feutrogensis	(8)	multiple		
		(G) znej	clemain Livillac	sdeng M (D)	
	9 phiwoffat art		is hie tom used	maisannes.	
	eatime).	(8)			
	Birds		2980		
tento done	scies which differ from	Leapellations of a spi	illy adapted loca	satanag ad T	
	bomaters, are leaned.				
	Footong	(0)	25	ngo B (A)	
		(C)			
		as recommend		vehills Per	T
			ed čuve		
			Piviuo bisc	into-3 (d)	
		Secution is	or Lond S shape		
	89	or for S-shaped curv	to I shaped to	athau (D)	
	vity (P.) and per pointary	oss primary productiv	ng nariwaad girta	Totale relation	
			sented by the e	rigerizi (,4).	

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