

MOCK CET - 2015

DATE	SUBJECT	TIME	
02.05.2015	BIOLOGY	3.50 PM TO 5.00 PM	
MAXIMUM MARKS	TOTAL DURATION	MAXIMUM TIME FOR ANSWERING	
60	80 MINUTES	70 MINUTES	
MENTION YOUR	QUESTION BOOKLET DETAILS		
CET NUMBER	VERSION CODE	SERIAL NUMBER	
	A-3		

DOs:

- 1. Check whether the CET No. has been entered and shaded in the respective circles on the OMR answer sheet.
- 2. This Question Booklet is issued to you by the Invigilator after 1st Bell i.e, after 3.45 p.m
- 3. The Serial Number of this question booklet should be entered on the OMR answer sheet.
- 4. The Version Code of this question booklet should be entered on the OMR answer sheet and the respective circles should be shaded completely.
- 5. Compulsory sign at the bottom portion of the OMR answer sheet in the space provided.

DONTs:

- 1. The timing and marks printed on the OMR answer sheet should not be damaged/mutilated/ spoiled.
- 2. The 2nd Bell rings at 3.50 p.m. till then,
 - Do not remove the seal/staple present on the right hand side of this question booklet.
 - Do not look inside this question booklet.
 - Do not start answering on the OMR answer sheet.

IMPORTANT INSTRUCTIONS TO CANDIDATES

- 1. This question booklet contains 60 questions and each question will have one statement and four distraction (four different options / choices).
- 2. After the **2nd Bell** is rung at **3.50 p.m**. Remove the seal/staple present on the right hand side of this question booklet and start answering on the OMR answer sheet.
- 3. During the subsequent 70 minutes:
 - Read each question carefully.
 - Choose the correct answer from out of the four available distracters (options /choices) given under each question/statement.
 - Completely darken / shade the relevant circle with a BLUE OR BLACK INK BALLPOINT PEN against the question number on the answer sheet.

CORRECT METHOD OF SHADING THE CIRCLE ON THE ANSWER SHEET IS AS SHOWN BELOW:



- 4. Please note that even a minute unintended ink dot on the answer sheet will also be recognized and recorded by the scanner. Therefore, avoid multiple markings of any kind on the OMR sheet.
- 5. Use the space provided on each page of the question booklet for Rough work. Do not use the OMR answer sheet for the same.
- 6. After the **last bell** is rung at **5.00 pm** stop writing on the OMR answer sheet and affix your LEFT HAND THUMB IMPRESSION on the OMR answer sheet as per the instructions.
- 7. Hand over the OMR answer sheet to the room invigilator as it is.
- 8. After separating and retaining the top sheet, (UA copy) the invigilator will return the bottom sheet replica (candidate's copy) to you to carry home for self evaluation.
- 9. Preserve the replica of the OMR answer sheet for a minimum period of ONE week. For results, log on to the website www.uaes.in 5 days after the examination.

BIOLOGY CET - 3

1.	Appearance of vegetative propagules from the nodes of plants such as sugarcane and ginger is			
	mainly because			
	1) Nodes are shorter than internodes	2) Nodes have meristar	natic cells	
	3) Nodes are located near the soil	4) Nodes have non – ph	notosynthetic cells.	
2.	Which one of the following in a barrier method used by men for contraception			
	1) Diaphragm 2) pills	3) cervical cap	4) condoms	
3.	Plasmodesmata are			
	1) Connection between adjacent cells			
	2) Lignified cemented layers between cells.			
	3) Membranes connecting the nucleus with p	olasmalemma		
	4) Locomotory structure			
4.	There is no DNA in			
	1) A mature spermatozoa	2) Hair root		
	3) An enucleated ovum	4) mature RBC		
5.	Uric acid is the chief nitrogenous component	of the excretory products of	f	
	1) Man 2) frog	3) Earthworm	4) cockroach.	
6.	Which part of Human brain is concerned with	the regulation of body tem	perature.	
	1) Cerebrum 2) cerebellum	3) medulla oblongata	4) Hypothalamus.	
7.	Foetal ejection reflex in human female is indu	ced by		
	Release of oxytocin from pituitary	2) Pressure exerted by		
	3) Differentiation of mammary glands.	4) Fully developed foetu	is and placenta.	
8.	The permissible use of the technique amnioce	entesis is for :		
	Artificial Insemination. Transfer of ambrus into the uterus of ourse.	rate mether		
	2) Transfer of embryo into the uterus of surro3) Detecting any genetic abnormality.	gate mother.		
	4) Detecting any genetic abnormality.			
9.	Which one of the following is not a lateral mer	istem.		
•	Interfascicular cambium	2) phellogen		
	Intercalary meristem	Intrafascicular cambi	um	
10.	Single – celled eukaryotes are included in	,		
	1) Fungi 2) Archaea	3) Monera	4) Protista	
11.	Which one of the following does not follow the	,	ar Biology.	
	1) Mucor 2) Chlamydomonas	3) HIV	4) Pea	
12.	A common Biocontrol agent for the control of	plant disease is	,	
	1) Bacillus thuringiensis 2) Glomus	3) Trichoderma	4) Baculovirus.	
13.	Stirred tank Bioreactors have been designed for			
	1) Purification of the product			
) Ensuring anaerobic conditions in the culture vessel			
	3) Availability of O ₂ throughout the process			
	4) Addition of preservatives to the product.			
14.	Virus envelope is known as	, ·		
	1) Virion 2) Nucleoprotein	3) Core	4) Capsid	
15.	Breeding of crops with high levels of minerals	, vitamins and proteins is o	alled	
	1) Biofortification 2) Biomagnification	3) Micropropagation	4) somatic hybridization	

16.	Male and female gametophytes are independent and free – living in			
	1) Castor	2) Pinus	3) Marchantia	4) Mustard
17.	The biomass available	for consumption by the	herbivores and the decom	posers is called
	1) Secondary producti	ivity	2) Standing crop	
	3) Gross primary prod	luctivity	4) Net primary productivi	ty
18.	The technical term use	d for the androecium in	a flower of hibiscus rosasi	nensis is
	1) Diadelphous	2) polyandrous	3) polyadelphous	4) Monadelphous.
19.	Darwin's finches are go	ood example of		
	1) Connecting link	2) Adaptive radiation	3) Convergent evolution	4) Industrial melanism
20.	Invitro fertilization is a t	echnique that involves t	ransfer of which one of the	e following into the
	fallopian tube.			
	Either zygote or early embryo upto 8 celled stage			
	2) Embryo of 32 celled	d stage.		
	3) Zygote only			
	4) embryo only, upto 8	3 cell stage.		
21.	Which is Incorrect			
	1) Blood group 'O' RB	Cs have both A and B a	ntigens	
	2) Eosinophils resist in	nfections and take part in	n allergic reactions.	
	3) RBCs contain carbo	onic annhydrase		
	4) T wave of ECG rep	resents end of ventricula	ar depolarization.	
22.	What is correct?			
1) Cultivated sludge is digested by Aerobic bacteria to form marsh gas.				
	2) Aspergillus niger produces cyclosporine A			
	3) Fleming, chanin and	d flory awarded Noble p	rize for discovering penicil	lin.
	4) BOD is amount of oxygen produced by bacteria on decomposition.			
23.	What is the source of E	CORI		
	1) Escherichia coli R1		2) Escherichia coli R1 13	
24.	3) Esherichia coli R x What is correct?	13	4) Escherichia coli R y 1	3
24 .		ave convergent evolution	า	
		nomo erectus are closel		
	·	ows cryptic camouflage.	y rolatou.	
	·	responsible for extinction	on of dinosaurs.	
25.	Which is the best meth-	od of germplasm conse	rvation.	
4	1) Herbarium	2) Botanical garden	3) Zoological park	4) seed bank.
26.	Placenta functions as for	oetal		
	1) Alimentary canal	2) Lung	3) Kidney	4) All of these
27.	Shedding of endometric	•	-	
00	1) Menstruation	2) Ovulation	3) fertilization	4) Placentation
28.	Hyaluronidase is found		3) oggo	1) overv
20	 Sperms Antrum is the cavity of 	2) Graaffian follicle	3) eggs	4) ovary
2 J.	1) Ovary	2) Gastrula	3) Blastula	4) Graaffian follicle
	-,	_,	-,	., 5.33.113.113.11010
30.	During pregnancy, one	of the following harmon	e is secreted by corpus lu	teum
	1) LH	2) HCG	3) Progesterone	4) FSH

31.	The cortical granules in egg are present				
	1) Below the plasma membrane				
	2) In between the plasma and vitelline membrane				
	3) Below the vitelline i	membrane			
	4) All of the above.				
32.	A threatened species is	3			
	Only endangered s		2) only vulnerable specie	20	
	,	•	4) Endangered, vulnerab		
3) Endangered and rare species4) Endangered, vulnerable and33. Which national park is known for one horned Rhino			ne una rare.		
00.	1) Kanha	2) Corbett	3) Kajiranga	4) Bandhavgarh	
34.	,	carnivores may also be	• •	+) Dandhavgain	
J . .	 Primary producers 	carrivores may also be	2) Secondary producers		
	3) Primary consumers	2	4) Secondary consumers		
35.	Seminiferous plant is	•	+) Occordary consumers		
00.	Having only stamin	ate flowers	2) Reproducing by seed	9	
	3) Reproducing by ve		4) none of the above.		
36.	Synergids are	g-ta ppa-g-a	.,		
	1) Diploid	2) Haploid	3) Triploid	4) Tetraploid.	
37.	•	, .	roduce 100 megaspores	, ,	
	1) 25	2) 50	3) 100	4) 200	
38.	How many nuclei are p	resent in fully developed	d male gametophyte	•	
	1) 4	2) 2	3)1	4)3	
39.	Self sterility is a term a	pplied when		•	
	1) Pollen is sterile				
	2) Ovule is sterile				
	3) Both 1 and 2				
	•	minate on the stigma of	same flower.		
40.		a flower is represented I			
	1) Embryosac	2) pollen sac	3) Stamens	4) carpel.	
41.	Tapetal cells are	-,	<i>5, 5, 5, 5, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,</i>	.,	
	1) Haploid	2) Polyploid	3) Diploid	4) Triploid	
42.	Best method of haploid	, · · · · ·	o) Dipioid	i) inploid	
7∠ .	Hybridization	2) Delayed pollination	3) pollen culture	4) ovary	
43.	, ,	ated from microspores to	, .	+) Ovary	
	Megaspores	Vegetative cell	3) Generative cell	4) pollen grain	
44.	Male gametes are final	. •	o) Scholative cen	+) policii gialii	
77.	Nucleus	2) Ovule	3) Embryosac	4) Ovary	
45.	•	eloped from generative of	•	4) Ovary	
7 0.	Meiosis	2) Mitosis	3) Amitosis	4) None	
46.	Meiosis occurs in Angio	,	0)741110313	+) 1 10 110	
4 0.	Flowers are formed		2) seeds are formed		
	Pollen grains are formed		4) none		
47.	The most common type of ovule in Angiosperms is				
	1) Orthotropous	2) Anatropous	3) Hemianatropous	4) campylotropous	
48.	Carpels represent	, 1	, 1	, 1, 1,	
	1) Megasporangia	2) Megaspores	3) Megasporophyll	4) microsporophyll.	

49.	Sexuality in plants was observed by					
	1) Grew	2) Kolreuter	3) Camerarius	4) Amici		
50.	Germ pores are found in					
	1) Ovules	2) Seeds	3) Microspores	4) Megaspores		
51.	Main function of endoth	Main function of endothecium is				
	1) Mechanical	2) Nutritive	3) Dehiscense	4) None		
52.	Single microsporangiur	m per anther is found is				
	1) Gossypium	2) Hibiscus	3) Arceuthobium	4) Najas.		
53.	Embryoids are					
	1) Immature embryos					
	2) Non – zygotic embr	ryos developed through	tissue culture			
	3) Embryos formed by parthenogenesis					
	4) Embryos which lack	k vitality				
54.	Male flower is known a	S				
	1) Pistillate	2) Unisexual	3) Staminate	4) None		
55.	Pollination through sna					
	1) Ornithophily	2) Malacophily	3) Mermecophily	4) Entemophily		
56.	Ovule of an Angiosperr		0) 14			
5 7	Microsporangium Maiasia in availa takan		3) Microgametangium	4) None		
57.	Meiosis in ovule takes place in 2) Merospore really and a self-self-self-self-self-self-self-self-					
	1) Nucellus		2) Megaspore mother ce	11		
5 0	3) Megaspore		4) Archesporium			
56.	Biopiracy is		2) Detenting Diagonal was	a of others		
	1) Exploitation of Bioresources 2) Patenting Bioresources of others 2) Lies of bioresources without authorization 4) Both 2 and 3			es of others		
3) Use of bioresources without authorization 4) Both 2 and 3			* 4) Both 2 and 3			
59.	A plant of reed swamp		O) Tuess	4) 0:!!::-		
60	1) Juncus	2) Salix	3) Trapa	4) Sagittaria.		
60.			- la 1114			
Orderly process of community change till stability						
2) Gradual convergent, directional and continuous process3) Series of biotic communities that appear generally in barren area.						
		imunities that appear ge	nerally in parren area.			
	4) All the above.					