

RBSE

RAJASTHAN BOARD OF SECONDARY EDUCATION 2023

CLASS XII

Question Paper

Date: 01 April 2023 | TIME: (08:30 a.m. to 11:45 a.m)

Duration: 3 hr 15 min. | Max. Marks: 56

SUBJECT: BIOLOGY

Resonance Eduventures Ltd.

Reg. Office & Corp. Office : CG **Towe**r, A-46 & 52, IPIA, Near City **Mal**l, Jhalawar Road, Kota (Raj.) - **3**24005 **Ph. No. :** +91-744-2777777, **27777700 | FAX No. :** +91-022-39167222

To Know more: sms RESO at 56677 | Website: www.resonance.ac.in | E-mail: contact@resonance.ac.in | CIN: U80302RJ2007PLC024029

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SS-42-Biology

Educating	or better	tomorro		ducating	for bette	tomorre
Roll No.						
			200			

SENIOR SECONDARY EXAMINATION, 2023 BIOLOGY

Time allowed: 3 hr, 15 Min.

Maximum Marks: 56

GENERAL INSTRUCTIONS TO THE EXAMINEES:

- 1) Candidate must write first his / her Roll No. on the question paper compulsorily.
- 2) All the questions are compulsory.
- 3) Write the answer to each question in the given answer-book only.
- 4) For questions having more than one part, the answers to those parts are to be written together in continuity.
- 5) If there is any error / difference / contradiction in the Hindi & English versions of the question paper, the question of Hindi version should be treated valid.
- 6) Write down the serial number of the question before attempting it.

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Edu	esunance ester tomorrow	nance"	RBSE	XII Exam <mark>inat</mark>	tion - 2023 (01-04-2023
	Resonance	Residen	TION A	Resonan	ce° Re	esonanc
	Answer the following question	ns by selecting th	ne correct op	tion in answer be	ook.	
1. Educ						
(i)	Asexual reproductive structur		nce®			2500 HC
	(A) Bud (C) Zoospores	(B) Conidia (D) Gemm <mark>ul</mark> e	es Reson			
Educ	ating for better tomorrow Educating for	better tomorrow				Tow
(ii)	Not an example of sexually tr (A) Gonorrhea	(B) Syphilis	Se IS -			2500 the ating for better tomorr
	(C) Chlamydiasis	(D) Cancer				
(iii)	The genetic code that codes	for Mathionina is	Educating for bet			
(111)	(A) UUU	(B) AUG	, -			ating for better tomorr
	(C) ACG	(D) AAA				
(iv)	Example of lymphoid organ is	s -				
(10)	(A) Thymus (B) L		Pancreas	(D) Stom	ach	ating for better tomorr
Educ	Microbe that is used as biofe	rtilizor				[1]
(v)	(A) <u>Trichoderma</u>		Penicillium no	tatum		esonanc
	(C) Cyanobacteria	/ 1 /	actobacillus			
(vi)	An enzyme that cut DNA into	fragments -				[1]
(*.)	(A) DNA Ligase	- /	Restriction en	zyme		250nanc
	(C) DNA Polymerase	(D) F	Proteases en	zyme		
(vii)	Which protein gene 'cry' cont	rols the corn bor	er.			row [1]
, ,	(A) I – Ac		– Ac & II – A	b		250Nanc ating for better tomorr
	(C) II – Ac	(D) I	– Ab			
(viii)	Example of In-situ conservati	on of hiodiversity	/ is -			[1]
(*)	(A) Wildlife sanctuaries	-	, io Zoological pai	rk		2500311C ating for better tomorr
	(C) Botanical garden		Vildlife safari			
(ix)	Main example of greenhouse	gas is				[1]
()	(A) Nitrogen	TYESUI IC	Carbon mo <mark>no</mark>	xide		250121C ating for better tomorr
	(C) Methane		<mark>Ox</mark> ygen			
2.	Fill in the blanks :					
(i)	Male honey bee are (Ploidy) having	chron	nosomes.	Pacanana Educ	$\frac{1}{2} + \frac{1}{2} = 1$
(ii)	Insulin used for diabetes was	extracted from t	the(or	gan) of slaughte	ered pigs and an	imals. [1]
(iii)	The rate of biomass production	on is called	nce® tomorrow			250Nanc
(iv)	The world Summit on Sustair	nable Developme	ent held in 20	02 in	South Africa	[1]
• /	Resonance"	Resona		Resonan	ce" He	esonanc
	Educating for better to Reso	nance E	auvent	tures Ltd	prrow Educ	
	Reg. Office & Corp. Office : CG Tov					324005
To Kno	Ph. No.: +9 ow m <mark>ore : s</mark> ms RESO at 56677 Website	1-744-2777777, 277 : www.resonance.ac				2007PLC024029
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Educa	esonance ====================================	Resc	pnance" Re	RBSE XII Exam	<mark>inat</mark> ion - 2	023 01-04-202
3.	Give the answer	of the follow	v <mark>ing questions in a</mark> wor	d or <mark>a line</mark> .		
(i)	Define external f	ertilisation.				Educating for better tomo [1]
(ii)	Write full name of	f ZIFT.				Decon[1]
(iii)_	The phenotype of	RRyy gene	otype seeded plant will	be -		Educating for better tomo
(iv)	What is Transge	Resc Educating to	DITANCE REDUCE			phance fetter tomorrow [1]
(v)	Write function of		deaminase.			Resonance Educating for better 1 mg
(vi)	Write name of co	mnonents c	of nucleoside			[½+½ =1]
		·				Resonand
(vii)	Write one adapta	tion of seals	s found in polar seas.			Educating for betti 14mc
(viii)	Explain one reas	on of defore	estation.			etter tomorrow [1]
			SECTIO	N B		
	Short answer typ	e questions	(Answer word limit 50	words):		
4.	Write name and	unction of t	hree parts of female re	productive system.		[1/2+1/2+1/2=11/2]
5. p.	Write three horm	ones secret	ed by placenta			[1/2+1/2+1/2=11/2]
Educa 3.	Explain 'Incompl	te dominar	nce' with example.			letter tomorrow [1½]
7.	Explain Turner's	syndrome w	vith symptoms.			[1½]
B. Educa	Write brain capa	city and two	characters of life style	of Neanderthal ma	n.	[½+1=1½
9.	Explain 'Adaptive	radiation' v	vith example			Resonation [1½]
10.	Define inbreedin	ı. Write nan	ne of any one animal d	eveloped from inter	rspecific hyb	ridisation.
11.			of crop and Part - B con			
	Match the follow		or crop and Fart - B cor	tains their related c	lisease resis	[$\frac{1}{2} + \frac{1}{2} + \frac{1}{2} = \frac{1}{2}$]
	PART-A		PART - B			nance®
	(A) Cowpea	(i)	Pusa Sadabahar			
	(B) Cauliflow	r tomorrov(ii)	PusaKomal			
	(C) Chilli'	(iii)	Pusa Shubhra			
	Write the name	f the microc	o <mark>rga</mark> nism commonly ca	lled <mark>brew</mark> er's yeast.	. Write one u	se of it.
12.	Education for he					$[1+\frac{1}{2}=1\frac{1}{2}]$
		f BOD. Wha	at is the relation <mark>of p</mark> ollu	iting potential and I	BOD of wast	
12. 13.	Write full name of		at is the relation of pollusparged stirred-tank bio		BOD of wast	e water. [1+½ =1½] [1½]

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SECTION C

Long answer type questions (Answer word limit 100 words)

16. Write the name of the pathogen of amoebiasis. Write two symptoms and two source of infection.

[1+1+1=3]

17. What are the stenothermal organism? Draw a diagrammatic representation of organismic response.

[1+2=3]

18. Define ecological succession. Explain Hydrarch succession and Xerarch succession in brief.

[1+2=3]

SECTION D

Essay type questions (Answer word limit 100 words):

19.

- (i) Define pollination.
- (ii) Explain double fertilisation.
- (iii) Draw a labelled diagram of structure of fertilised embryo sac.

 $[1+1\frac{1}{2}+1\frac{1}{2}=4]$

OR

OR

- (i) Define Xenogamy pollination.
- (ii) Write one example of each non-albuminous, albuminous, perispermic seed.
- (iii) Draw a labelled diagram of L.S. of pistil showing path of pollen tube growth.

 $[1+1\frac{1}{2}+1\frac{1}{2}=4]$

20.

(i)

- (i) Define translation.
- (ii) Explain process of translation.
- (iii) Draw a labelled diagram of translation.

 $[1+1\frac{1}{2}+1\frac{1}{2}=4]$

Name the disease that results from point mutation.

 $[1+1\frac{1}{2}+1\frac{1}{2}=4]$

- (ii) Explain the Lac operon.
- (iii) Draw a labelled diagram of the Lac operon.

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About CUET (UG)

Common University Entrance Test (CUET) is the program that provides equal opportunity to all students from different Boards & different region.

- CUET, known as Common Universities Entrance Test (CUET), is a Computer Based All India Test for admission to various Undergraduate Programmes in 44 Central Universities and other State Private + Deemed Universities of India.
- CUET (UG) is organized by National Testing Agency (NTA).
- Official Website: <www.samarth.cuet.ac.in > OR <www.cuet.nta.ac.in >

Points to Remember: CUET (UG) 2023

- >> Candidates can choose any Language/Domain Specific Subjects/General Test or a combination as per the requirements of the course in the specific University.
- The choice of Tests/Subjects depend on the course/s chosen by the candidate and the University/ies where admission is sought.
- A Candidate can take a maximum of 10 tests.

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	A T
11/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1	

S.No.	SECTION	NO. OF QUESTIONS	QUESTIONS TO ATTEMPT	DURATION
1.	SECTION-I (A+B)	50	40	45 Minutes
2.	SECTION-II	50/45	40/35	45 Minutes*
3.	SECTION-III	60	50	45 Minutes*

Section IA – 13 Languages (As a medium and "Language")

*Not yet announced by NTA.

Assamese | Bengali | English | Gujarati | Hindi | Kannada | Malayalam | Marathi | Odia | Punjabi | Tamil | Telugu | Urdu

Section IB – 20 Languages

Arabic | Bodo | Chinese | Dogri | French | German | Persian | Russian | Sindhi | Tibetan | Italian | Japanese | Kashmiri | Konkani | Maithili | Manipuri | Nepali | Santhali | Spanish | Sanskrit

Section II – 27 Domain-Specific Subjects

There are 27 Domains specific Subjects being offered under this Section. Candidate may choose a maximum of Six (06) Domains as desired by the applicable University/Universities.

Section III – General Test

General Knowledge, Current Affairs, General Mental Ability, Numerical Ability, Quantitative Reasoning (Simple application of basic mathematical concepts arithmetic/algebra geometry/mensuration/stat taught till Grade 8).

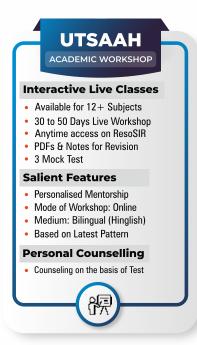
- Candidates, from any Stream (Arts / Commerce / Science), who are appearing in Class12th Examination in 2022-23 OR who have Passed the class 12th or equivalent examination, irrespective of their age can appear in the CUET (UG)–2023.
- Students of Science stream can explore some unique courses of B. Tech/M. Tech/Bio-Tech courses through CUET exam at some renowned universities of India like DU/BHU etc.
- · Candidates have to fulfil the age criteria if it is specified by a Particular University to which the candidate wishes to apply.

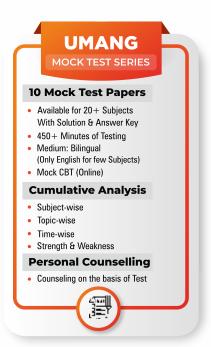
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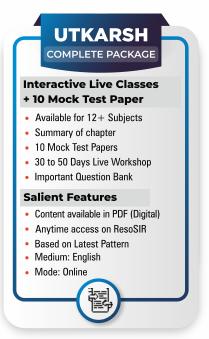
The following Courses are being offered by Resonance for CUET (UG)-2023



* Availability of these subjects depends on number of students enrolled.







ACADEMIC WORKSHOP (UTSAAH)	PHASE-II	22 March to 30 April 2023 15 April to 20 May 2023	Scan
TEST SERIES (UMANG) 22 March 2023 Onwards			QR Code

Reso Toppers CUET (UG) 2022



St. Stephen's College Delhi University (DU) ANIKET ANAND Reso Roll No.: 22603392



Deshbandhu College
Delhi University (DU)

UPAKRAMANAIKA BISHNU
Reso Roll No.: 19765817

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