Roll	No:	



ARMY BURN HALL COLLEGE FOR BOYS Entry Test - Class 11th

SUBJECT: BIOLOGY

Time allowed: 30 Minutes Maximum Mark
rime anowed. 30 Minutes Maximum Maximu

INSTRUCTIONS

- Write your Roll Number only on the top right corner.
- Do not write your name or any other information.
- Do not use lead pencil.
- Avoid erasing, cutting, overwriting, etc.
- Any sign, mark, name, etc written on Answer Script to disclose your identity will disqualify you for admission to the College.

ATTEMPT ALL QUESTIONS

SECTION-A (Marks 5)

Q. 1 Encircle the correct option.

- Emulsification is a process in which fats molecules are broken down into smaller one, by the (1) action of:
 - A. pancreatic juice B. gastric juice C. bile juice
- D. both A and B
- (2) Aorta supplies blood to all parts of the human body except:
 - livers Α.
- B. lungs
- kidneys C.
- D. none of these
- (3)Pick out the liquid that helps to prevent infection when applied on cuts.
 - tincture of iodine
- B. silver nitrate
- C. distilled water

D.

- D. all of these
- (4) Bacteria reproduces asexually in unfavourable conditions by:
 - Α. budding
- multiple fission
- C. binary fission
- endospore formation

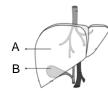
- (5) Pick out the male hormone:
 - A. testosterone
- B. estrogen
- C. oxytocin
- D. all of these

SECTION-B (Marks 15)

Q. 2 Give short answers of the following questions.

 $(5 \times 3 = 15)$

Label part A and B and write down the function of part B. i.



ii. A patient visited cardiologist. Doctor dignosed clogged coronary arteries. Suggest the possible treatment to recover.

iii.



- What process is shown in the above diagram. Define it. (a)
- (b) Name the agents which facilitate this process.
- Differentiate between diabetes incipidus and diabetes mellitus. iv.
- What is single cell protein? What is its significance? ٧.



ARMY BURN HALL COLLEGE FOR BOYS

Entry Test - Class 11th

SUBJECT: CHEMISTRY

	SUBJECT: CHEWISTRY									
Time	allow	ed: 30 Mii	nutes						Maxim	num Marks: 20
					INSTRUCT	<u>IONS</u>				
	•	Write	our Roll Numl	per only	on the top ri	ght corne	er.			
	•	Do not	write your na	me or a	ny other infor	mation.				
	•	Do not	use lead pen	cil.						
	•	Avoid	erasing, cuttin	g, overv	vriting, etc.					
	•	•	gn, mark, nam nission to the			wer Scri	ipt to	disclose your	identity v	vill disqualify you
				ATTE	MPT ALL C	<u>UESTI</u>	ONS	<u> </u>		
				SE	CTION-A	Marks	<u>5)</u>			
Q. 1	Enci	rcle the co	orrect option	•						
	(1)	Silicon be	elongs to grou	ıp IV-A	of the period	dic table	. It ha	as following \overline{e}	in its val	ence shell.
		A. 2		В.	3		C.	4	D.	5
	(2)	M shell h	as following s	ub-she	lls:					
		A. 1s		В.	2s 2p		C.	3s 3p 3d	D.	4s 4p 4d 4f
	(3)	The word	l "But" stands	for	carbon a	toms.				
		A. 1		B.	2		C.	3	D.	4
	(4)	"Strato" r	neans:							
		A. tur	ning	B.	changing		C.	spread out	D.	middle
	(5)	What is t	he K_C unit of t	he follo	wing reactio	n?				
			$N_{2(g)} + O_{2(g)}$	$\Rightarrow 2NC$	$\mathcal{O}_{(g)}$					
		A. no	unit	B.	mol.dm ⁻³		C.	mol ⁻¹ .dm ⁺³	D.	mol ⁻² .dm ⁺⁶
				SEC	TION-B (Marks 1	<u>15)</u>			
Q. 2	Atte	empt all qu	estions. Eac	h ques	tion carries	three n	nark	S.		(5×3 = 15)
	i.	Draw a	ll the possible	isome	rs of pentane	€.				
	ii.	Define	shielding effe	ct. Give	its trends in	the Mo	dern	Periodic Tabl	le.	
	iii.	What is	the effect of	vapour	pressure on	boiling	point	of the liquid?	•	
	iv.	Explain	the importan	ce of M	esosphere.					
	٧.	Identify	the functiona	ıl group	in the follow	ing com	pour	nds:		
		(a)	CH ₃ COCH ₃	(b)	CH ₃ CHO	(c)	C	CH_3CH_2COOH		
		` '	5 5	` '	5	` '		5 L		

Roll No:	
----------	--



ARMY BURN HALL COLLEGE FOR BOYS Entry Test – Class 11th

SUBJECT: PHYSICS

Time allowed: 30 Minutes	Maximum	Marks:	20
rime allowed: 30 Minutes	waximum	warks:	4

INSTRUCTIONS

- Write your Roll Number only on the top right corner.
- Do not write your name or any other information.
- Do not use lead pencil.
- Avoid erasing, cutting, overwriting, etc.
- Any sign, mark, name, etc written on Answer Script to disclose your identity will disqualify you for admission to the College.

ATTEMPT ALL QUESTIONS

SECTION-A (Marks 5)

Q. 1 Encircle the correct optic	วท
---------------------------------	----

(1)	Unifo	rm velocity with whi	ch pa	ratroopers come to	grou	nd is called	velo	city.
	A.	horizontal	B.	terminal	C.	variable	D.	orbital
(2)	The v	vork will be zero wh	en an	gle between force	and c	listance is:		
	A.	45	B.	60	C.	90	D.	180
(3)	Critic	al angle for glass is:						
	A.	50°	B.	42°	C.	45°	D.	30°
(4)	Two i	inputs of NAND gate	e are	A and B. Its output	would	d be 0 when:		
	A.	A=0, B=1	B.	A=1, B=0	C.	A=0, B=0	D.	A=1, B=1
(5)	Wher	n a heavy nucleus s	plits ir	nto two lighter nucl	ei, the	process would:		
	A. C.	release nuclear en release chemical e	0,			uclear energy hemical energy		

SECTION-B (Marks 15)

Q. 2 Attempt all questions. Each question carries three marks.

 $(5 \times 3 = 15)$

- i. How Newton's law of gravitation helps in understanding the motion of satellite?
- ii. A container has 2.5 liters of water at 20° C. How much heat is required to boil the water?
- iii. Why we see the bending of pencil in water?
- iv. A nitrogen nuclide $_7N^{16}$ decays to become an oxygen nuclide by emitting an electron. Show this process with an equation.
- v. Will two separate 50 dB sounds together constitute 100 dB sounds? Explain.

Roll No:	



ARMY BURN HALL COLLEGE FOR BOYS Entry Test – Class 11th

SUBJECT: ENGLISH

Time allowed: 30 Minutes		Maximum Marks: 20
	INICTOLICTIONIC	

<u>INSTRUCTIONS</u>

- Write your Roll Number only on the top right corner.
- Do not write your name or any other information.
- Do not use lead pencil.
- Avoid erasing, cutting, overwriting, etc.
- Any sign, mark, name, etc written on Answer Script to disclose your identity will disqualify you for admission to the College.

							_			
			_				<u>S</u>			
Encir	cle the	correct option	۱.							
(1)	Не си	ut down the tree	s. The te	ense is:						
	A.	Present simple	B.	Present	perfect	C.	Past perfect	D.	Future si	mple
(2)			e a dece	nt harvest	the	droug	ght. Choose su	itable tra	ansitional	device
	A.	moreover	B.	as a resu	ılt	C.	however	D.	despite	
(3)	Identi	ify the compour	nd-compl	ex sentend	e from t	he se	ntences given	below:		
	A. B. C. D.	Aleena likes He missed th	playing b e plane l	adminton because h	but her be was la	orothe te.			utes later.	
(4)	Whic	h one of the foll	owing se	entence po	ssesses	the A	dverb of frequ	ency?		
	A. B. C. D.	My dog likes The singer pe	going for erformed	a walk at well in the	night. concert					
(5)			•	•			•	quickly	and peac	efully.
	A. C.			B. D.						
Maria	- A44			CTION-B	(Mark	s 15)				
		-								
Cha	nge the	e following par	agraph i	into indire	ct spee	ch:				[4]
worr	iedly sa	aid, "Do you m	ean he i	s fine?" Th						
Cha	nge the	e voice of the f	ollowing	j:						[3]
(a)	My f	ather is reciting	the Holy	Quran.	(b) l	He had told me	to do it.		
(c)	Wer	e new books bo	ught by	my friend?						
` ,			- ,	-						[3]
	زالا گ يا۔	3. سانپ مار ڈ	ى مرچكا تھا۔	نے سے پہلے مریفز	. ڈاکٹر آ	2	زبروزاضافه ہورہاہے۔	ن آبادی می <i>ں رو</i>	1. ھار	
Write	e an em	nail to your elde	r brother	telling him	about y	our fu	iture plans.			[5]
	(1) (2) (3) (4) (5) Note Cha The worr troul Cha (a) (c) Tran	(1) He con A. (2) We may from A. (3) Identify A. B. C. D. (4) Which A. B. C. D. (5) It isChood A. C. Note: Attended The King so worriedly so trouble and Change the Canage	(1) He cut down the tree A. Present simple (2) We managed to have from the following: A. moreover (3) Identify the compour A. He left in a have been been been been been been been be	Encircle the correct option. (1) He cut down the trees. The teas. A. Present simple B. (2) We managed to have a decentrom the following: A. moreover B. (3) Identify the compound-completed A. He left in a hurry after B. Aleena likes playing bear C. He missed the plane bear D. I have not met my classed bear of the following season of the following season of the following season of the following season of the suddenly turned hear of the suddenl	SECTION—A Encircle the correct option. (1) He cut down the trees. The tense is: A. Present simple B. Present promote the following: A. moreover B. as a result of the following: A. moreover B. as a result of the following badminton because here and the plane because here are the following badminton because here are the plane because here are the following badminton because here following badminton beca	SECTION-A (Marks) Encircle the correct option. (1) He cut down the trees. The tense is: A. Present simple B. Present perfect (2) We managed to have a decent harvest the from the following: A. moreover B. as a result (3) Identify the compound-complex sentence from the following: A. He left in a hurry after he got a phone can be a Aleena likes playing badminton but her be a cause he was land be a likes playing badminton but her be a cause he was land be a likes playing badminton but her be a cause he was land be a likes playing badminton but her be	SECTION—A (Marks 5) Encircle the correct option. (1) He cut down the trees. The tense is: A. Present simple B. Present perfect C. (2) We managed to have a decent harvest the drouge from the following: A. moreover B. as a result C. (3) Identify the compound-complex sentence from the see A. He left in a hurry after he got a phone call but B. Aleena likes playing badminton but her brother C. He missed the plane because he was late. D. I have not met my classmates for a long. (4) Which one of the following sentence possesses the A. He suddenly turned his car to the right. B. My dog likes going for a walk at night. C. The singer performed well in the concert. D. I usually take a cup of coffee in the morning. (5) It is for so many nations to change their form of Choose the word with correct spellings to fill in the blace and badis and precedented because he was late. C. unprecedented B. inprecedented C. unprecedented D. unprecedented D. Unprecedented C. Unprecedented D. Unprec	Encircle the correct option. (1) He cut down the trees. The tense is: A. Present simple B. Present perfect C. Past perfect (2) We managed to have a decent harvest the drought. Choose surfrom the following: A. moreover B. as a result C. however (3) Identify the compound-complex sentence from the sentences given A. He left in a hurry after he got a phone call but he came back B. Aleena likes playing badminton but her brother likes reading C. He missed the plane because he was late. D. I have not met my classmates for a long. (4) Which one of the following sentence possesses the Adverb of frequence. A. He suddenly turned his car to the right. B. My dog likes going for a walk at night. C. The singer performed well in the concert. D. I usually take a cup of coffee in the morning. (5) It is for so many nations to change their form of government so the change the following paragraph into indirect speech: The King said, "Is my son dead?" The messenger said, "No Sir, thank worriedly said, "Do you mean he is fine?" The messenger replied, "No trouble and badly needs your help." Change the voice of the following: (a) My father is reciting the Holy Quran. (b) He had told me forms and the content of the presence of the following: (c) Were new books bought by my friend? Translate into English:	SECTION-A (Marks 5) Encircle the correct option. (1) He cut down the trees. The tense is: A. Present simple B. Present perfect C. Past perfect D. (2) We managed to have a decent harvest the drought. Choose suitable traffrom the following: A. moreover B. as a result C. however D. (3) Identify the compound-complex sentence from the sentences given below: A. He left in a hurry after he got a phone call but he came back five min B. Aleena likes playing badminton but her brother likes reading books. C. He missed the plane because he was late. D. I have not met my classmates for a long. (4) Which one of the following sentence possesses the Adverb of frequency? A. He suddenly turned his car to the right. B. My dog likes going for a walk at night. C. The singer performed well in the concert. D. I usually take a cup of coffee in the morning. (5) It is for so many nations to change their form of government so quickly Choose the word with correct spellings to fill in the blank? A. unprecedented B. inprecedented C. unprecedented D. unprecedented C. unprecedented D. unprecedented C. unprecedented B. inprecedented C. unprecedented B. inprecedented C. unprecedented B. inprecedented C. unprecedented C. unprecedented C. unprecedented B. inprecedented C. unprecedented B. inprecedented C. unprecedented C. unprecedented C. unprecedented B. inprecedented C. unprecedented C. unprecedented C. unprecedented B. inprecedented C. unprecedented B. inprecedented C. unprecedented C. unprecedented C. unprecedented C. unprecedented C. unprecedented C. unprecedented C. unprecedented B. inprecedented C. unprecedented C. unprecedented C. unprecedented C. unpr	SECTION—A (Marks 5) Encircle the correct option. (1) He cut down the trees. The tense is: A. Present simple B. Present perfect C. Past perfect D. Future si from the following: A. moreover B. as a result C. however D. despite (3) Identify the compound-complex sentence from the sentences given below: A. He left in a hurry after he got a phone call but he came back five minutes later. B. Aleena likes playing badminton but her brother likes reading books. C. He missed the plane because he was late. D. I have not met my classmates for a long. (4) Which one of the following sentence possesses the Adverb of frequency? A. He suddenly turned his car to the right. B. My dog likes going for a walk at night. C. The singer performed well in the concert. D. I usually take a cup of coffee in the morning. (5) It is for so many nations to change their form of government so quickly and peace Choose the word with correct spellings to fill in the blank? A. unprecedented B. inprecedented C. unprecedented D. unprecedented C. unprecedented D. unprecedented C. unprecedented D. unprecedented Change the following paragraph into indirect speech: The King said, "Is my son dead?" The messenger said, "No Sir, thank God." The King worriedly said, "Do you mean he is fine?" The messenger replied, "No Sir, he is in great trouble and badly needs your help." Change the voice of the following: (a) My father is reciting the Holy Quran. (b) He had told me to do it. (c) Were new books bought by my friend? Translate into English:

Roll	NIA:		
TC ()111	13(1)		



ARMY BURN HALL COLLEGE FOR BOYS Entry Test – Class 11th

SUBJECT: MATHEMATICS

Time allowed: 30 Minutes Maximum Marks: 20

INSTRUCTIONS

- Write your Roll Number only on the top right corner.
- Do not write your name or any other information.
- Do not use lead pencil.
- Avoid erasing, cutting, overwriting, etc.
- Any sign, mark, name, etc written on Answer Script to disclose your identity will disqualify you for admission to the College.

ATTEMPT ALL QUESTIONS

SECTION-A (Marks 5)

Q. 1 Encircle the correct option.

(1) The distance between the points $A(5, 3)$ and $B(-5, 3)$	7) is:
--	--------

A. $10\sqrt{29}$

B. $4\sqrt{29}$

C. $8\sqrt{29}$

D. $2\sqrt{29}$

(2) Which one of the following is not a polynomial?

A. 3x + 8

B. $x^2 + 2x + \sqrt{2}$

C. $x^2 + 2x + \sqrt{2x}$

D. $x^2 + 2x + \sqrt{2}x$

(3) If α , β are the roots of $2x^2 - 6x - 4 = 0$, then what is the value of $\alpha^2 \beta^3 + \alpha^3 \beta^2$?

A. – 12

B. 6

C. -6

D. 12

(4) What is the angle of elevation of sun if 6 m high pole casts a shadow of $2\sqrt{3}$ m?

A 30°

B. 45°

C. 60°

D. 90°

(5) What is the value of 'p' if 12, p and 3 are in continued proportion?

A. ±4

B. ± 36

C. ± 6

D. $+\sqrt{4}$

SECTION-B (Marks 15)

Note: Attempt all questions. Each question carries five marks.

 $(3 \times 5 = 15)$

- **Q. 2** Find the values of 'x' and 'y' if $(1+i)^3(x+yi) = (4+5i)$
- **Q. 3** Solve the equation $5^{1+x} + 5^{1-x} = 26$

Q. 4 If
$$\tan \theta = \frac{4}{3}$$
 and $\sin \theta < 0$

- (a) Find the quadrant in which the terminal side of the angle lies?
- (b) Find the values of $Sec \theta$ and $Cosec \theta$
- (c) Show that $1 + Cot^2\theta = Cosec^2\theta$
- (d) Show that $Sec^2\theta tan^2\theta = 1$