# **BT:BIOTECHNOLOGY**

Duration: Three Hours

B. Control Hills

Please read the following instructions carefully:

#### **General Instructions:**

- 1. Total duration of examination is 180 minutes (3 hours).
- 2. The clock will be set at the server. The countdown timer in the top right corner of screen will display the remaining time available for you to complete the examination. When the timer reaches zero, the examination will end by itself. You will not be required to end or submit your examination.
- 3. The Question Palette displayed on the right side of screen will show the status of each question using one of the following symbols:

1	You have not visited the question yet.
3	You have not answered the question.
5	You have answered the question.
7	You have NOT answered the question, but have marked the question for review.
9	You have answered the question, but marked it for review.

The Marked for Review status for a question simply indicates that you would like to look at that question again. *If a question is answered and Marked for Review, your answer for that question will be considered in the evaluation.* 

### Navigating to a Question

a.

- 4. To answer a question, do the following:
  - Click on the question number in the Question Palette to go to that question directly.
  - b. Select an answer for a multiple choice type question. Use the virtual numeric keypad to enter a number as answer for a numerical type question.
  - c. Click on **Save and Next** to save your answer for the current question and then go to the next question.
  - . Click on **Mark for Review and Next** to save your answer for the current question, mark it for review, and then go to the next question.
  - e. Caution: Note that your answer for the current question will not be saved, if you navigate to another question directly by clicking on its question number.
- 5. You can view all the questions by clicking on the **Question Paper** button. Note that the options for multiple choice type questions will not be shown.

#### Answering a Question

- 6. Procedure for answering a multiple choice type question:
  - a. To select your answer, click on the button of one of the options
- StudentBounty.com b. To deselect your chosen answer, click on the button of the chosen option again or click on Clear Response button
  - c. To change your chosen answer, click on the button of another option
  - d. To save your answer, you MUST click on the Save and Next button
  - e. To mark the question for review, click on the Mark for Review and Next button. If an answer is selected for a question that is Marked for Review, that answer will be considered in the evaluation.
- 7. Procedure for answering a numerical answer type question:
  - To enter a number as your answer, use the virtual numerical keypad a.
  - b. A fraction (eg.,-0.3 or -.3) can be entered as an answer with or without '0' before the decimal point
  - c. To clear your answer, click on the Clear Response button
  - d. To save your answer, you MUST click on the Save and Next button
  - e. To mark the question for review, click on the Mark for Review and Next button. If an answer is entered for a question that is Marked for Review, that answer will be considered in the evaluation.
- 8. To change your answer to a question that has already been answered, first select that question for answering and then follow the procedure for answering that type of question.
- 9. Note that ONLY Questions for which answers are saved or marked for review after answering will be considered for evaluation.



#### **Paper specific instructions:**

- StudentBounty.com 1. There are a total of 65 questions carrying 100 marks. Questions are of multiple choice numerical answer type. A multiple choice type question will have four choices for the answer only one correct choice. For numerical answer type questions, the answer is a number and no choice will be given. A number as the answer should be entered using the virtual keyboard on the monitor.
- 2. Questions Q.1 Q.25 carry 1mark each. Questions Q.26 Q.55 carry 2marks each. The 2marks questions include two pairs of common data questions and two pairs of linked answer questions. The answer to the second question of the linked answer questions depends on the answer to the first question of the pair. If the first question in the linked pair is wrongly answered or is not attempted, then the answer to the second question in the pair will not be evaluated.
- 3. Questions Q.56 Q.65 belong to General Aptitude (GA) section and carry a total of 15 marks. Questions Q.56 - Q.60 carry 1 mark each, and questions Q.61 - Q.65 carry 2 marks each.
- 4. Questions not attempted will result in zero mark. Wrong answers for multiple choice type questions will result in **NEGATIVE** marks. For all 1 mark questions, <sup>1</sup>/<sub>2</sub> mark will be deducted for each wrong answer. For all 2 marks questions, 3/3 mark will be deducted for each wrong answer. However, in the case of the linked answer question pair, there will be negative marks only for wrong answer to the first question and no negative marks for wrong answer to the second question. There is no negative marking for questions of numerical answer type.
- 5. Calculator is allowed. Charts, graph sheets or tables are **NOT** allowed in the examination hall.
- 6. Do the rough work in the Scribble Pad provided.

				S.
2013				BILLER
Q.1-	Q. 25 carry one n	nark each.		C.
Q.1		tions, DNA is more stal	ble than RNA because	
	<ul><li>(A) RNA forms seco</li><li>(B) RNA is a single s</li><li>(C)RNA has uracil ir</li><li>(D)RNA is susceptib</li></ul>	stranded molecule place of thymidine		Student
Q.2	Which one of the fol	lowing modifications is	s common toboth proteir	and DNA?
	(A) SUMOylation	(B) Nitrosylation	(C)Methylation	(D) Ubiquitination
Q.3	Protein A, which has	strong affinity to F <sub>c</sub> re	gion of immunoglobulir	n, is extracted from
	(A)Saccharomyces c (B)Staphylococcus a (C)Streptococcus pyo (D)Streptococcus sar	erevisiae ureus ogenes		
Q.4	The first humanized	monoclonal antibody a	pproved for the treatmer	nt of breast canceris
	(A) Rituximab	(B) Cetuximab	(C) Bevacizumab	(D) Herceptin
Q.5	Which one of the fol	lowing aminoacids in p	roteins does NOT under	rgo phosphorylation?
	(A) Ser	(B) Thr	(C) Pro	(D) Tyr
Q.6	The role of an adjuva	ant isto		
	<ul><li>(A) prolong the persit</li><li>(B) cross link the and</li><li>(C) increase the size</li><li>(D) avoid inflammat</li></ul>	tigen of antigen	Suc	
Q.7	Endogenous antigens	are presented on to the	e cell surface along with	
	(A) MHC-II	(B) MHC-I	(C) $F_c\gamma$ receptor	(D) complement re
Q.8	Human genome sequ	encing project involved	d the construction of ger	iomic library in
4	<ul><li>(A)bacterial artificial</li><li>(C) bacteriophage</li></ul>	chromosome	(B)pBR322 (D) pcDNA3.1	
Q.9	The nucleotide analo	gue used in DNA seque	encing by chain termina	tion method is
	<ul> <li>(A) 1',3'-dideoxy nuc</li> <li>(B) 2',3'-dideoxy nuc</li> <li>(C) 2',4'-dideoxy nuc</li> <li>(D) 2',5'-dideoxy nuc</li> </ul>	cleoside triphosphate cleoside triphosphate		
Q.10	In nature, the horizon	ntal gene transfer across	s bacteria is mediated by	r
	<ul><li>(A) gene cloning foll</li><li>(C) conjugation only</li></ul>	owed by transformation	n (B)conjugation and (D) transformation	
Q.11	Phylum proteobacter	ia is subdivided into $\alpha$ -	, β-, γ-, δ- and ε-proteot	pacteria based on
	(A) G+C content (C)tRNA sequences		(B) 23S rRNA sequ (D)16S rRNA seque	
	• •		· · ·	

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).12	Which one of the	following is an ABC tra	unsporter?	1	700
2.12	(A)multidrug resis (C)bacteriorhodop	stance protein	(B) acetylchol (D) ATP syntl	*	oou
2.13	The catalytic effic	iency for an enzyme is	definedas		
	(A) $k_{\text{cat}}$	(B) $\frac{V_{max}}{k_{cat}}$	(C) $\frac{k_{cat}}{K_m}$	(D) $\frac{k_{cat}}{V_{max}}$	
0.14		l species, species I has 3 es would be found in an		species II has 28 chromoso al?	omes. How
	(A) 42 or 54	(B)46 or 50	(C) 74 or 86	(D) 84 or 108	1
0.15	The RNA primer s	synthesized during the r	eplication process in	bacteria is removed by	1.)
	<ul><li>(A) DNA gyrase</li><li>(C) DNA polymer</li></ul>	rasel	(B)primase (D) DNA poly	vmerase II	1
0.16	The suitable subst	itution matrix to align c	losely related sequen	ices is	
	(A) PAM 250 or E (C) PAM 120 or E			or BLOSSUM 80 or BLOSSUM 40	
2.17	If $P = \begin{bmatrix} 1 & 1 \\ 2 & 2 \end{bmatrix}, Q$	$= \begin{bmatrix} 2 & 1 \\ 2 & 2 \end{bmatrix} \text{ and } R = \begin{bmatrix} 3 \\ 1 \end{bmatrix}$	$\begin{bmatrix} 0\\3 \end{bmatrix}$ , which one of the	e following statements is <b>T</b>	RUE?
	(A) $PQ = PR$ (C) $QP = RP$	4	(B) $QR = RP$ (D) $PQ = QR$	1	
2.18	If $u = \log(e^x + e^x)$	$(x^y)$ , then $\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y}$			
	(A) $e^{x} + e^{y}$ (C) $\frac{1}{e^{x} + e^{y}}$	-4	(B) $e^x - e^y$		
	$(C)\frac{1}{e^x + e^y}$	-14	(D) 1		
).19		a is manifested by an X le and an affected heter		ele.What proportion of the manifest the disease?	offsprings
4	(A) $\frac{1}{2}$ sons and $\frac{1}{2}$ (C) all sons and no		(B) all daught (D) ¼ daughte	ers and no sons ers and ¼ sons	
2.20	One of theeigen v	alues of $P = \begin{bmatrix} 10 & -4\\ 18 & -12 \end{bmatrix}$	$\begin{bmatrix} 1\\2 \end{bmatrix}$ is		
	(A) 2	(B) 4	(C) 6	(D) 8	

Q.21 A callus of 5 g dry weight was inoculated on semi-solid medium for growth. The dry weight of the callus was found to increase by 1.5 fold after 10 days of inoculation. The growth index of the culture is \_\_\_\_\_

- A chemostat is operated at a dilution rate of 0.6 h<sup>-1</sup>. At steady state, the biomass con Q.22 the exit stream was found to be 30 g l<sup>-1</sup>. The biomass productivity (g l<sup>-1</sup>h<sup>-1</sup>) after 3h of s operation will be
- StudentBounty.com Q.23 A batch bioreactor is to be scaled up from 10 to 10,000 liters. The diameter of the large bioreactor is 10 times that of the small bioreactor. The agitator speed in the small bioreactor is 450 rpm. Determine the agitator speed (rpm) of the large bioreactor with same impeller tip speed as that of the small bioreactor.
- O.24 Calculate the percentage sequence identity for the pairwise alignment given below

HELLO-YELLOW

In a batch culture, the specific rate of substrate utilization is 0.25 g (g cell mass)<sup>-1</sup> h<sup>-1</sup> and specific 0.25 rate of product formation is 0.215 g (g cell mass)<sup>-1</sup> h<sup>-1</sup>. Calculate the yield of product from the substrate( $Y_{p/s}$ ).

# Q. 26 to Q. 55 carry two marks each.

Match the commercial microbial sources in Group I with the products in Group II. Q.26

Match the entries in the Group I with the elution conditions in Group II.

### **Group I**

- P. Corynebacteriumlilium
- Q. Klebsiellaoxytoca
- R. Aspergillusniger
- S. Alcaligeneseutrophus
- (A) P-3, O-1, R-2, S-4
- (C) P-1,Q-3,R-2,S-4

Group I

# Group II

**Group II** 

1. 2,3-Butane di-ol

3. Glutamic acid

(B) P-3,Q-1,R-4,S-2

(D) P-1,Q-3,R-4,S-2

4. Citric acid

2. Poly-β-hydroxybutyric acid

- 1. Isocratic solvent
- 2. Ampholytes
- 3. Increasing gradient of salt
- 4. Decreasing gradient of polarity

(B) P-4,Q-3,R-1,S-2 (D) P-3,Q-4,R-2,S-1

P. Ion-exchange chromatography Q. Hydrophobic column chromatography R. Gel filtration chromatography S. Chromatofocusing

(A) P-4,Q-1,R-2,S-3 (C) P-3,Q-4,R-1,S-2

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Q.28 Determine the correctness or otherwise of the following Assertion (a) and Reason (r)

StudentBounty.com Assertion: Immobilization of plant cells can enhance secondary metabolite production durin bioreactor cultivation.

**Reason:** Immobilization protects the plant cells from shear forces in the bioreactor.

- (A) Both (a) and (r) are true and (r) is the correct reason for (a).
- (B) Both (a) and (r) are true but (r) is not the correct reason for (a).
- (C) (a) is true but (r) is false.
- (D) (a) is false but (r) is true.

R. Pseudomurine in cell wall

Q.29 Match the cell structures in Group I with the organisms in Group II.

# Group I

P. Endospores

Q. Bipolar flagella

S. Periplasmic flagella

(A) P-4, Q-3, R-1, S-2

(C) P-3, Q-4, R-1, S-2

### **Group II**

- 1. Methanobacterium
  - 2. Treponema
  - 3. Spirillum
  - 4. Clostridium

(B) P-4, Q-3, R-2. (D) P-4, Q-1, R-3, S

Q.30 Match the antibioticsinGroup I with the targets inGroup II.

### **Group I**

- P. Sulfonamide
- Q. Quinolones
- R. Erythromycin S. Cephalosporin

(A) P-3, Q-4, R-1, S-2 (C) P-4, Q-1, R-2, S-3

- Group
- 1. Peptidoglycan synthesis
- 2. Peptide chain elongation
- 3. Folic acid biosynthesis
- 4. Topoisomerase

(B) P-2, Q-4, R-3, S-1 (D) P-3, Q-4, R-2, S-1

In nature, Agrobacterium tumefaciens mediated infection of plant cells leads to 0.31

- P. crown gall disease in plants
- Q. hairy root disease in plants
- R. transfer of T-DNA into the plant chromosome

S. transfer of Ri-plasmid into the plant cell

(A) S only

(B) P and R only

(C) Q and S only

Q.32 Match the entries in Group I with the enzymes in Group II.

# **Group I**

 $P. NAD^+$ 

Q. Selenium

S. Molybdenum

(A) P-3, Q-2, R-4, S-1

(C) P-3, Q-1, R-4, S-2

R. Pyridoxal phosphate

### **Group II**

1. Glutathione peroxidase

(D) Q only

- 2. Nitrogenase
- 3. Lactate dehydrogenase
- 4. Glycogen phosphorylase
- (B) P-4, Q-1, R-3, S-2 (D) P-3, Q-4, R-2, S-1

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Q.33 Match the herbicides in Group I with the target enzymesin Group II.

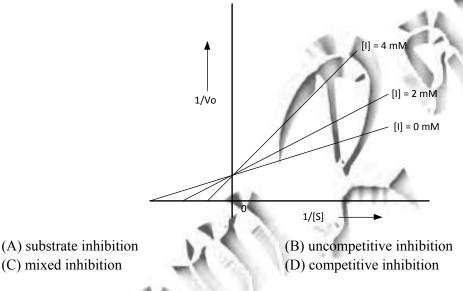
#### **Group I**

- P. Glyphosate Q. Bromoxynil R. Sulphonylureas
- S. Dalapon

# (A) P-4, Q-1, R-2, S-3 (C) P-4, Q-3, R-2, S-1

# **Group II**

- 1. Nitrilase
- 2. Acetolactatesynthetase
- 3. Dehalogenase
- StudentBounty.com 4. 5-Enolpyruvyl shikimate3-phosphate synthase
- (B) P-2, Q-1, R-4, S-3 (D) P-3, Q-2, R-4, S-1
- Q.34 The activity of an enzyme was measured by varying the concentration of the substrate (S) in the presence of three different concentrations of inhibitor (I) 0, 2 and 4 mM. The double reciprocal plot given belowsuggests that the inhibitor (I) exhibits



Q.35 Match the entries in Group Iwith the entries in Group II.

Group I	<u>Group II</u>
P. RNAse P Q. RNase H R. snRNAs S. CstF	<ol> <li>Polyadenylation</li> <li>Splicing</li> <li>Ribozymes</li> <li>DNA-RNAhybrids</li> </ol>
(A) P-3, Q-4, R-2, S-1 (C) P-3, Q-2, R-1, S-4	(B) P-4, Q-3, R-2, S-1 (D) P-2, Q-4, R-1, S-3

Q.36

Assertion:UPGMA method produces ultrametric tree.

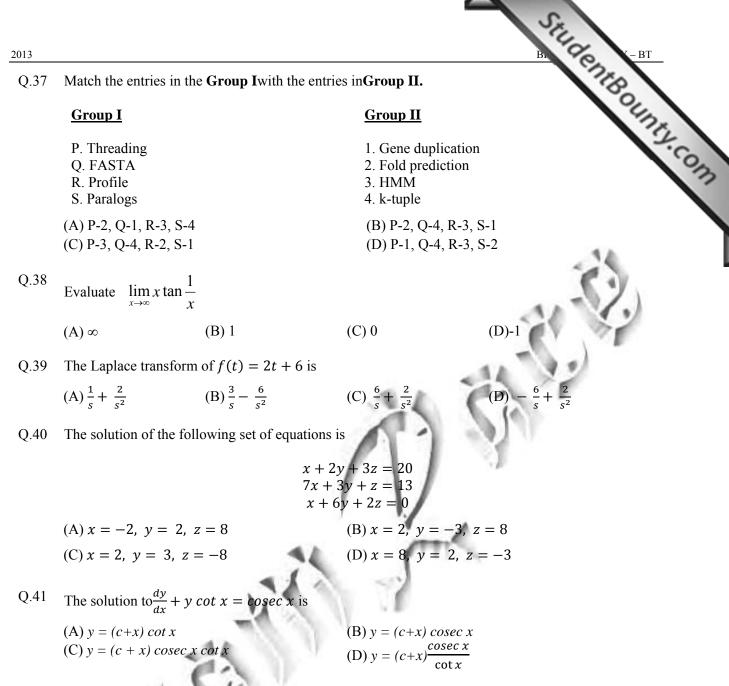
**Reason:**Sequence alignment is converted into evolutionary distances in UPGMA method.

Determine the correctness or otherwise of the following Assertion (a) and Reason (r).

- (A) Both (a) and (r) are true and (r) is the correct reason for (a)
- (B) Both (a) and (r) are true and (r) is not the correct reason for (a)
- (C) (a) is true but (r) is false
- (D) (a) is false but (r) is true

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Q.37 Match the entries in the Group I with the entries in Group II.



- A complete restriction digestion of a circular plasmid (5000bp) was carried out with Q.42 HindIII, BamHIandEcoRlindividually. Restriction digestion yielded following fragments.
  - Plasmid +  $HindIII \rightarrow 1200$ bp and 3800bp Plasmid + BamHI→5000bp Plasmid + EcoRI→ 2500bp

The number of sites for EcoRI, BamHI and HindIII present on this plasmid are

(A)EcoRI-2, BamHI-1, HindIII-2 (C)EcoRI-3, BamHI-2, HindIII-1

(B)EcoRI-1, BamHI-1, HindIII-2 (D)EcoRI-2, BamHI-2, HindIII-1

# **Q.** 43 – **Q.** 47 are of numerical answer type.

StudentBounty.com The total number of fragments generated by the complete and sequential cleavage O.43 polypeptide given below by Trypsin followed by CNBr is

Phe-Trp-Met-Gly-Ala-Lys-Leu-Pro-Met-Asp-Gly-Arg-Cys-Ala-Gln

- O.44 In a genetic study, 80 people were found to have alleles for polydactyly. Only 36 of them were polydactylous. What is the extent of penetrance percentage?
- Q.45 One percent of the cars manufactured by a company are defective. What is the probability (upto four decimals) that more than two cars are defective, if 100 cars are produced?
- The maximum cell concentration (g l<sup>-1</sup>) expected in a bioreactor with initial cell concentration of Q.46 1.75 g  $l^{-1}$  and an initial glucose concentration of 125 g  $l^{-1}$  is (Y<sub>x/s</sub> = 0.6 g cell/g substrate)
- A fed batch culture was operated with intermittent addition of glucose solution at a flow rate of Q.47 200 ml h<sup>-1</sup>. The values of  $K_{s, \mu_m}$  and D are 0.3 g l<sup>-1</sup>, 0.4 h<sup>-1</sup> and 0.1 h<sup>-1</sup>, respectively. Determine the concentration of growth limiting substrate (gl<sup>-1</sup>) in the reactor at quasi-steady state.

# **Common Data Questions**

# **Common Data for Questions 48 and 49**

A solution was prepared by dissolving 100 mg of protein X in 100 ml of water. Molecular weight of protein X is 15,000 Da; Avogadro's number =  $6.022 \times 10^{23}$ .

Calculate the molarity  $(\mu M)$  of the resulting solution. O.48

(B)6.6
(D)0.067

The number of moleculespresent in this solution is

(A) 40.15x10<sup>19</sup> (B)  $6.023 \times 10^{19}$   $(C)4.015 \times 10^{19}$ 

(D)  $0.08 \times 10^{19}$ 

2013

### **Common Data for Questions 50 and 51:**

StudentBount, com The binding efficiency of three different receptorsR1, R2 and R3 were tested against a ligan equilibrium dialysis, with a constant concentration of receptor and varying concentrations of ligand. Scatchard plot of receptor titration with different concentration of ligand is given below (ris moles of bound ligand per moles of receptor and c is concentration of free ligand)

		r/c <sup>2</sup>	$R1$ $R2$ $R3$ $R4$ $1$ $2$ $r \rightarrow $	3
Q.50	The number of ligar	d binding sites pre	esent on receptors R1 and R3	, respectively are
	(A)1 and 4	(B)1 and 1	(C)4 and 1	(D)2 and 2
Q.51	Which one of the re	ceptors has thehig	hestaffinity for the ligand?	3.J
	(A) R1	(B) R2	(C) R3	(D) R4
	d Answer Questio			
Stater	nent for Linked Ans	wer Questions 52	and 53:	
A DN	A fragment of 5000bp	needs to be isolat	ted from <i>E.coli</i> (genome size	4x10 <sup>3</sup> kb) genomic library.
Q.52	The minimum numb genomic library are	er of independent	recombinant clones required	to represent this fragment in
	(A) 16x10 <sup>2</sup>	$(B)12x10^2$	(C) $8x10^2$	(D) 1.25x10 <sup>2</sup>

Q.53 The number of clones to represent this fragment in genomic library with a probability of 95% are (A)  $5.9 \times 10^3$ (B)  $4.5 \times 10^3$ (C)  $3.6 \times 10^3$ (D)  $2.4 \times 10^3$ 

### **Statement for Linked Answer Questions 54 and 55:**

During sterilization of a fermentation medium in a given bioreactor  $\nabla_{heating} = 12.56$ ,  $\nabla_{cooling} = 7.48$  and the total value of  $\nabla$  required for whole sterilization process is 52, where  $\nabla$  is the design criteria.

Q.54 What is the value of  $\nabla_{\text{holding}}$ ?

> (A)31.96 (B) 42.32 (C) 52.43 (D) 61.18

- Q.55 What is the holding period (min) at a k value of  $3.36 \text{min}^{-1}$ ?
  - (A) 10.6 (B) 9.5 (C) 8.4 (D) 7.2

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## **General Aptitude (GA) Questions**

### Q. 56 – Q. 60 carry one mark each.

StudentBounty.com Q.56 If  $3 \le X \le 5$  and  $8 \le Y \le 11$  then which of the following options is TRUE?

$$(A) \frac{3}{5} \leq \frac{X}{Y} \leq \frac{8}{5}$$
$$(B) \frac{3}{11} \leq \frac{X}{Y} \leq \frac{5}{8}$$
$$(C) \frac{3}{11} \leq \frac{X}{Y} \leq \frac{8}{5}$$
$$(D) \frac{3}{5} \leq \frac{X}{Y} \leq \frac{8}{11}$$

The Headmaster \_\_\_\_\_\_ to speak to you. Q.57

Which of the following options is incorrect to complete the above sentence?

- (A) is wanting
- (B) wants
- (C) want
- (D) was wanting

Q.58 Mahatama Gandhi was known for his humility as

- (A) he played an important role in humiliating exit of British from India.
- (B) he worked for humanitarian causes.
- (C) he displayed modesty in his interactions.
- (D) he was a fine human being.
- Q.59 All engineering students should learn mechanics, mathematics and how to do computation. IV Π Ш Which of the above underlined parts of the sentence is not appropriate?

(B) II (C) III (D) IV (A) I

Select the pair that best expresses a relationship similar to that expressed in the pair: Q.60 water: pipe::

(A) cart: road (C) sea: beach (B) electricity: wire (D) music: instrument

## Q. 61 to Q. 65 carry two marks each.

- StudentBounty.com Velocity of an object fired directly in upward direction is given by V = 80 - 32 t, where t Q.61 is in seconds. When will the velocity be between 32 m/sec and 64 m/sec?
  - (B)(1/2,1)(A)(1, 3/2)(C)(1/2, 3/2)(D)(1,3)
- Q.62 In a factory, two machines M1 and M2 manufacture 60% and 40% of the autocomponents respectively. Out of the total production, 2% of M1 and 3% of M2 are found to be defective. If a randomly drawn autocomponent from the combined lot is found defective, what is the probability that it was manufactured by M2?
  - (C) 0.5 (D) 0 (A) 0.35 (B) 0.45
- Following table gives data on tourists from different countries visiting India in the year 2011. Q.63

Country	Number of Tourists	1
USA	2000	
England	3500	
Germany	1200	
Italy	1100	
Japan	2400	-21
Australia	2300	1
France	1000	1

Which two countries contributed to the one third of the total number of tourists who visited India in 2011?

- (A) USA and Japan
- (B) USA and Australia

(C) England and France

(D) Japan and Australia

30

If |-2X + 9| = 3 then the possible value of  $|-X| - X^2$  would be: Q.64

> (C) -42 (B) -30

(D) 42

Q.65 All professors are researchers Some scientists are professors

Which of the given conclusions is logically valid and is inferred from the above arguments:

- (A) All scientists are researchers
- (B) All professors are scientists
- (C) Some researchers are scientists
- (D) No conclusion follows

# **END OF THE QUESTION PAPER**

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# GATE 2013 : Answer keys for BT - Biotechnology

1	-	<u> </u>	
	Paper		Key(s)/Value(s)
	BT	1	D
	BT	2	С
	BT	3	В
	BT	4	D
	BT	5	С
	BT	6	A
	BT	7	В
	BT	8	А
	BT	9	В
	ΒT	10	В
	ΒT	11	D
	BT	12	А
	BT	13	С
	BT	14	В
	BT	15	С
	BT	16	В
	BT	17	А
	BT	18	D
	BT	19	A
	BT	20	C V
	BT	21	0.5
	BT	22	_18
	BT	23	45
	BT	24	66.5 to 66.7
	BT	25	0.81 to 0.91
1	BT	26	В
ľ	BT	27	С
١	BT	28	A
	BT	29	A
	вт	30	D
	BT	31	В
	BT	32	С
	BT	33	А
	BT	34	D
	BT	35	А

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Γ	Paper	Q.No	Key(s)/Value(s)	E.
	BT	36	В	24
	BT	37	В	.8.
	BT	38	В	3
	BT	39	С	
F	BT	40	В	
F	BT	41	В	. 10
F	BT	42	A	63
F	BT	43	5	
F	BT	44	45	
F	BT	45	0.075 to 0.085	
	BT	46	76.7 to 76.9	2
F	BT	47	0.1	
F	BT	48	A	
T	вт	49	Marks to All	
1	вт	50	D	
Ì	BT	51	A	
	BT	52	С	
F	BT	53	D	
ſ	BT	54	A	
	BT	55	В	
	BT	56	В	
F	BT	57	С	
╞	BT	58	С	
F	BT	59	D	
F	BT	60	В	
F	BT	61	С	
F	BT	62	С	
F	BT	63	С	
╞	BT	64	В	
┢	BT	65	С	
L				