Q. 1 – Q. 5 carry one mar	k each.
---------------------------	---------

Q.1	The volume of	a sphere of diameter 1 uni	it is than the v	than the volume of a cube of side 1 unit.			
	(A) least	(B) less	(C) lesser	(D) low			
Q.2	The unruly crov	wd demanded that the accu	used be	without trial.			
	(A) hanged	(B) hanging	(C) hankering	(D) hung			
Q.3	Choose the stat	ement(s) where the underl	lined word is used corre	etly:			
	(ii) He	(ii) He was lying prone on the floor.					
	(A) (i) and (iii) only (B) (iii) only	(C) (i) and (ii) o	only (D) (ii) and (iii) or	nly		
Q.4	Fact: If it rains	, then the field is wet.					
	(i) It rains (ii) The fie	ld is not wet ld is wet					
	Which one of the	he options given below is	NOT logically possible	based on the given fact?			
	(A) If (iii), the	n (iv).	(B) If (i), then (iii).			
	(C) If (i), then	(ii).	(D) If (ii), then	(iv).			
Q.5	A window is made up of a square portion and an equilateral triangle portion above it. The base of the triangular portion coincides with the upper side of the square. If the perimeter of the window is 6 m, the area of the window in m ² is						
	(A) 1.43	(B) 2.06	(C) 2.68	(D) 2.88			

any *a*, is _____.

(B) 1

(A) 0

Q. 6 – Q. 10 carry two marks each.

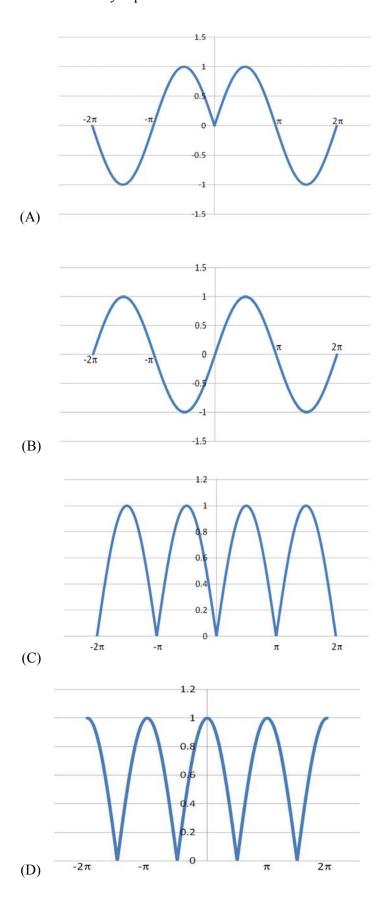
2.0	Q. 10 carry two marks each.					
Q.6	Students taking an exam are divided into two groups, P and Q such that each group has the same number of students. The performance of each of the students in a test was evaluated out of 200 marks. It was observed that the mean of group P was 105, while that of group Q was 85. The standard deviation of group P was 25, while that of group Q was 5. Assuming that the marks were distributed on a normal distribution, which of the following statements will have the highest probability of being TRUE ?					
	(A) No student in group \mathbf{Q} scored less marks than a	ny student in group P .				
	(B) No student in group P scored less marks than ar	y student in group Q .				
	(C) Most students of group Q scored marks in a nar	rower range than students in group P .				
	(D) The median of the marks of group \mathbf{P} is 100.					
Q.7	A smart city integrates all modes of transport, uses clean energy and promotes sustainable use of resources. It also uses technology to ensure safety and security of the city, something which critics argue, will lead to a surveillance state.					
	Which of the following can be logically inferred from the above paragraph?					
	 (i) All smart cities encourage the formation (ii) Surveillance is an integral part of a smar (iii) Sustainability and surveillance go hand i (iv) There is a perception that smart cities pro 	t city. n hand in a smart city.				
	(A) (i) and (iv) only (B)	(ii) and (iii) only				
	(C) (iv) only (D)	(i) only				
Q.8	Find the missing sequence in the letter series.					
	B, FH, LNP,					
	(A) SUWY (B) TUVW (C)	TVXZ (D) TWXZ				
Q.9	The binary operation \Box is defined as $a \Box b = ab + (a$ The value of the identity element of this operation, d					

(C) 2

(D) 10

GATE 2016 General Aptitude - GA Set-2

Q.10 Which of the following curves represents the function $y = \ln(|e^{[|\sin(|x|)|]}|)$ for $|x| < 2\pi$? Here, x represents the abscissa and y represents the ordinate.



END OF THE QUESTION PAPER

Q.1

$Q.\ 1-Q.\ 25$ carry one mark each.

Bacteria with two or more flagella at one or both ends are called

	(A) amphitrichous	(B) peritrichous	(C) lophotrichous	(D) atrichous	
Q.2	Which family of viruses has single stranded DNA?				
	(A) Herpesviridae	(B) Poxviridae	(C) Retroviridae	(D) Parvoviridae	
Q.3	What will be the binding status of regulatory proteins in <i>lac</i> operon when concentrations of both lactose and glucose are very low in the culture medium?				
	(B) Only the cyclic AN CAP binding site (C) Neither the repress		Protein (cAMP-CAP) co plex remain bound to the	mplex remains bound to the eir respective binding sites respective binding sites	
Q.4	Which of the following	g are TRUE for <i>Trepone</i> .	ma pallidum?		
	P. It is the causative as Q. It is a spirochete R. It is a non-motile ba S. It is generally susce	acterium			
	Choose the correct cor	nbination.			
	(A) P, Q and R only	(B) P, Q and S only	(C) P, R and S only	(D) Q, R and S only	
Q.5	In a typical mitotic cel	l division cycle in eukary	yotes, M phase occurs in	nmediately after the	
	(A) G_0 phase	(B) S phase	(C) G_1 phase	(D) G_2 phase	
Q.6	Which one of the follogenetic disorders?	owing is NOT a therapeu	tic agent based on nucle	ic acid for the treatment of	
	(A) Antisense oligonud (C) Aptamer	cleotide	(B) Ribozyme(D) Avidin		
Q.7	ATP biosynthesis takes place utilizing the H ⁺ gradient in mitochondria and chloroplasts. Identify the correct sites of H ⁺ gradient formation.				
	 (A) Across the outer membrane of mitochondria and across the inner membrane of chloroplast (B) Across the inner membrane of mitochondria and across the thylakoid membrane of chloroplast (C) Within the matrix of mitochondria and across the inner membrane of chloroplast (D) Within the matrix of mitochondria and within the stroma of chloroplast 				
Q.8	Which one of the fol	lowing is NOT an algo	orithm for building ph	ylogenetic trees?	
	(A) Maximum parsin (C) Maximum likelih	•	(B) Neighbor joining (D) Bootstrap		

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Q.9		on is commonly used for e stranded Cs ⁺ DNA is gi				
	(A) total number of G (C) number of GC repo		(B) mole fraction of G (D) ratio of G+C to A			
Q.10	Disaccharide molecules that contain $\beta(1 \rightarrow 4)$ glycosidic linkage are					
	(A) sucrose and maltos(C) maltose and isoma		(B) sucrose and isoma(D) lactose and cellob			
Q.11	Junctional diversity of	antibody molecules res	ults from			
	(A) the addition of swi(B) the addition of N a(C) the joining of V, D(D) mutations in comp	nd P nucleotides	g regions			
Q.12	Which one of the following is NOT used for the measurement of cell viability in animal cell culture?					
	(A) Trypan blue dye ex (C) LDH activity in the		(B) Tetrazolium (MTT (D) Coulter counter	Γ) assay		
Q.13	Which one of the follo	wing techniques relies	on the spin angular mom	entum of a photon?		
	(A) CD spectroscopy(C) IR spectroscopy		(B) Fluorescence spec (D) Raman spectrosco	* *		
Q.14	Which one of the follo	wing statements is NO ?	Γ true?			
	 (A) In competitive inhibition, substrate and inhibitor compete for the same active site of an enzyme (B) Addition of a large amount of substrate to an enzyme cannot overcome uncompetitive inhibition (C) A transition state analogue in enzyme catalyzed reaction increases the rate of product formation (D) In non-competitive inhibition, K_m of an enzyme for its substrate remains constant as the concentration of the inhibitor increases 					
Q.15	Based on their function	n, find the ODD one ou	t.			
	(A) miRNA	(B) siRNA	(C) shRNA	(D) snRNA		
Q.16	Prandtl number is the ratio of					
	 (A) thermal diffusivity to momentum diffusivity (B) mass diffusivity to momentum diffusivity (C) momentum diffusivity to thermal diffusivity (D) thermal diffusivity to mass diffusivity 					

BT 2/10

Q.17 Fed batch cultivation is suitable for which of the following?						
	P. Processes with substrate inhibition Q. Processes with product inhibition R. High cell density cultivation					
	(A) P and Q only	(B) P and R only	(C) Q and R only	(D) P, Q and R		
Q.18	A biological process	ial effluent.				
	(A) primary	(B) secondary	(C) tertiary	(D) quaternary		
Q.19	In dead-end filtration	, rate of filtration is				
	(B) inversely proporti(C) inversely proporti	onal to the square root of ional to the pressure dro ional to the viscosity of ional to the square of vis	p across the filter mediu the solution			
Q.20	The power required for	or agitation of non-aerat	ed medium in fermentat	ion iskW.		
	Operating conditions are as follows: Fermentor diameter = 3 m Number of impellers = 1 Mixing speed = 300 rpm Diameter of the Rushton turbine = 1 m Viscosity of the broth = 0.001 Pa.s Density of the broth = 1000 kg.m ⁻³ Power number = 5					
Q.21	Which one of the foll (viscosity $> 10^5$ cP) fl	owing is the most suitabluids?	le type of impeller for n	nixing high viscosity		
	(A) Propeller	(B) Helical ribbon	(C) Paddle	(D) Flat blade turbine		
Q.22	Runs scored by a batsman in five one-day matches are 55, 75, 67, 88 and 15. The standard deviation is					
Q.23	The positive Eigen va	alue of the following ma	trix is	÷		
	$\begin{bmatrix} 2 & 1 \\ 5 & -2 \end{bmatrix}$					
Q.24	The Laplace transform	m F(s) of the function $f(s)$	$t = \cos(at)$, where a is	constant, is		
	$(A) \frac{s^2}{s^2 + a^2}$	(B) $\frac{a}{s^2 + a^2}$	$(C) \frac{s}{s^2 + a^2}$	$(D) \frac{s}{s^2 - a^2}$		

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Q.25

The value of the integral $\int_{0.9}^{0.9} \frac{dx}{(1-x)(2-x)}$ is _____

Q. 26 – Q. 55 carry two marks each.

- Which combination of the following statements is **CORRECT** for cyanobacteria?
 - P. They can perform oxygenic photosynthesis
 - Q. Usually filamentous forms are involved in nitrogen fixation
 - R. Nitrogen fixation occurs in heterocysts
 - S. They cannot grow in a mineral medium exposed to light and air
 - (A) P, Q and R
- (B) P, S and R
- (C) Q, R and S
- (D) P, Q and S
- Which set of the following events occurs during the elongation step of translation? Q.27
 - P. Attachment of mRNA with the smaller subunit of ribosome
 - O. Loading of correct aminoacyl-tRNA into the A site
 - R. Formation of a peptide bond between the amino acyl-tRNA in the A site and the peptide chain that is attached to the peptidyl-tRNA in the P site
 - S. Dissociation of the ribosomal subunits
 - T. Translocation of peptidyl-tRNA from the A site to the P site of the ribosome
 - (A) P, O and R
- (B) P, O and T
- (C) O, R and T
- (D) R, S and T
- A DNA sequence, 5'-ATGGACGTGCTTCCCAAAGCATCGGGC-3', is mutated to obtain Q.28
 - P. 5'-ATGGACGTGCTTCaCAAAGCATCGGGC-3'
 - Q. 5'-ATGGACGTGCTTCCCgAAAGCATCGGGC-3'
 - R. 5'-ATGGACGTGCTTCC-AAAGCATCGGGC-3'
 - S. 5'-ATGGACGTGCTTCCCAAtGCATCGGGC-3'
 - T. 5'-ATGGACGaGCTTCCCAAAGCATCGGGC-3'

[Point mutations are shown in the **lower case** or '-' within the sequences]

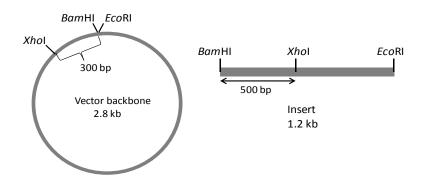
Which of the above mutant sequences **DO NOT** have frame-shift?

- (A) P, Q and S
- (B) P, S and T
- (C) Q, R and S
- (D) Q, S and T
- O.29 Which of the following events occur during the stationary phase of bacterial growth?
 - P. Rise in cell number stops
 - Q. Spore formation in some Gram-positive bacteria such as *Bacillus subtilis*
 - R. Cell size increases in some Gram-negative bacteria such as Escherichia coli
 - S. Growth rate of bacterial cells nearly equals their death rate
 - T. Decrease in peptidoglycan crosslinking
 - (A) P, Q and S only
- (B) P, S and T only (C) Q, R and S only
- (D) P, R and T only

Q.30	Select the CORRECT combination of genetic components that are essential for the transfer of T-DNA segment from <i>Agrobacterium tumefaciens</i> to plant cells.					
	(A) Border repeat sequences and oncogenes(C) Opine biosynthetic genes and <i>vir</i> genes	(B) Border repeat sequences and <i>vir</i> genes(D) Opine biosynthetic genes and oncogenes				
Q.31	Match the secondary metabolites (Column-I)	Match the secondary metabolites (Column-I) with the corresponding plant species (Column-II).				
	Column-I P. Morphine Q. Pyrethrins R. Scopolamine S. Vincristine (A) P-4, Q-3, R-1, S-2 (C) P-2, Q-3, R-4, S-1	Column-II 1. Datura stramonium 2. Catharanthus roseus 3. Papaver somniferum 4. Tagetes erecta (B) P-3, Q-4, R-1, S-2 (D) P-4, Q-1, R-2, S-3				
Q.32	A variety of genetic elements are used in the (Column-I) with their corresponding source (transgenic plant research. Match the genetic elements Column-II).				
	Column-I P. Ubiquitin1 promoter Q. Nos transcriptional terminator R. bar selection marker gene S. gus reporter gene	Column-II 1. Agrobacterium tumefaciens 2. Streptomyces hygroscopicus 3. Escherichia coli 4. Zea mays				
	(A) P-2, Q-1, R-3, S-4 (C) P-3, Q-4, R-1, S-2	(B) P-2, Q-3, R-4, S-1 (D) P-4, Q-1, R-2, S-3				
Q.33	Match the type of chromosomal inheritance (trait (Column-II).	Column-I) with the corresponding genetic disease or				
	Column-I P. Autosomal recessive inheritance Q. Autosomal dominant inheritance R. X-linked inheritance S. Y-linked inheritance	Column-II 1. Huntington disease 2. Hairy ears 3. Cystic fibrosis 4. Hemophilia				
	(A) P-1, Q-4, R-3, S-2 (C) P-3, Q-1, R-4, S-2	(B) P-4, Q-3, R-2, S-1 (D) P-4, Q-2, R-3, S-1				
Q.34		pes <i>DdEeFfgg</i> and <i>ddEeFfGg</i> . Assuming that the the proportion of progeny having the genotype b.				
Q.35	The equilibrium potential of a biological mem Na ⁺ inside the cell is 20 mM. Assuming the m concentration outside the membrane will be _ (Faraday constant: 23062 cal.V ⁻¹ .mol ⁻¹ , Gas co	mM.				

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Q.36 A 1.2 kb DNA fragment was cloned into *Bam*HI and *Eco*RI sites located on a 2.8 kb cloning vector. The *Bam*HI and *Eco*RI sites are adjacent to each other on the vector backbone. The vector contains an *Xho*I site located 300 bp upstream of the *Bam*HI site. An internal *Xho*I site is present in the gene sequence as shown in the figure. The resultant recombinant plasmid is digested with *Eco*RI and *Xho*I and analyzed through 1% agarose gel electrophoresis. Assuming complete digestion with *Eco*RI and *Xho*I, the DNA fragments (in base pairs) visible on the agarose gel will correspond to:



(A) 2800, 700 and 500

(B) 2800, 700 and 800

(C) 2500, 700 and 800

- (D) 2500, 1200 and 300
- Q.37 Find the **INCORRECT** combination.
 - (A) Surface immunoglobulins B cell antigen receptor
 - (B) Affinity maturation isotype switching
 - (C) Fc region of antibodies binding to complement proteins
 - (D) Spleen, the secondary lymphoid organ no connection with the lymphatic system
- Q.38 Which of the following statement(s) is/are **CORRECT** for antigen activated effector T cells?
 - P. CD4⁺ cells make contact with macrophages and stimulate their microbicidal activity
 - Q. CD4⁺ cells make contact with B cells and stimulate them to differentiate into plasma cells
 - R. CD8⁺ cells make contact with B cells and stimulate them to differentiate into plasma cells
 - S. CD8⁺ cells make contact with virus infected cells and kill them
 - (A) Q only
- (B) Q and S only
- (C) P, Q and S only
- (D) P, Q, R and S
- Q.39 Which one of the following statements regarding G proteins is **INCORRECT**?
 - (A) GDP is bound to G protein in the resting stage
 - (B) GTP bound α subunit cannot reassemble with $\beta \gamma$ dimer
 - (C) All G proteins are trimeric
 - (D) Activation of G protein may result in activation or inhibition of the target enzymes

BT 6/10

- Q.40 In animal cell culture, a CO₂ enriched atmosphere in the incubator chamber is used to maintain the culture pH between 6.9 and 7.4. Which one of the following statements is **CORRECT**?
 - (A) Higher the bicarbonate concentration in the medium, higher should be the requirement of gaseous CO₂
 - (B) Lower the bicarbonate concentration in the medium, higher should be the requirement of gaseous CO₂
 - (C) Higher the bicarbonate concentration in the medium, lower should be the requirement of gaseous CO₂
 - (D) CO₂ requirement is independent of bicarbonate concentration in the medium
- Q.41 Choose the **CORRECT** combination of True (T) and False (F) statements about microcarriers used in animal cell culture.
 - P. Higher cell densities can be achieved using microcarriers
 - Q. Microcarriers increase the surface area for cell growth
 - R. Microcarriers are used for both anchorage- and nonanchorage-dependent cells
 - S. Absence of surface charge on microcarriers enhances attachment of cells
 - (A) P-T, Q-F, R-T and S-F (C) P-F, Q-F, R-T and S-T (B) P-T, Q-T, R-F and S-F (D) P-F, Q-T, R-F and S-T
- Q.42 In an assay of the type II dehydroquinase of molecular mass 18 kDa, it is found that the V_{max} of the enzyme is 0.0134 μ mol.min⁻¹ when 1.8 μ g enzyme is added to the assay mixture. If the K_m for the substrate is 25 μ M, the k_{cat}/K_m ratio will be ______×10^4 M⁻¹.s⁻¹.
- Q.43 The molar extinction coefficients of Trp and Tyr at 280 nm are 5690 and 1280 M⁻¹.cm⁻¹, respectively. The polypeptide chain of yeast alcohol dehydrogenase (37 kDa) contains 5 Trp and 14 Tyr residues. The absorbance at 280 nm of a 0.32 mg.mL⁻¹ solution of yeast alcohol dehydrogenase measured in a cuvette of 1 cm pathlength will be

(Assume that the molar extinction coefficient values for Trp and Tyr apply to these amino acids in the yeast alcohol dehydrogenase).

Q.44 The activity of lactate dehydrogenase can be measured by monitoring the following reaction:

BT 7/10

- Q.45 Analysis of a hexapeptide using enzymatic cleavage reveals the following result:
 - Amino acid composition of the peptide is: 2R, A,V, S, Y
 - Trypsin digestion yields two fragments and the compositions are: (R, A, V) and (R, S, Y)
 - Chymotrypsin digestion yields two fragments and the compositions are: (A, R, V, Y) and (R, S)
 - Digestion with carboxypeptidase A yields no cleavage product.

Given: Trypsin cleaves at carboxyl side of R.

Chymotrypsin cleaves at carboxyl side of Y.

Carboxypeptidase A cleaves at amino side of the C-terminal amino acid (except R and K) of the peptide.

The correct amino acid sequence of the peptide is:

- (A) RSYRVA
- (B) AVRYSR
- (C) SRYVAR
- (D) SVRRYA
- Q.46 The empirical formula for biomass of an unknown organism is $CH_{1.8}O_{0.5}N_{0.2}$. To grow this organism, ethanol (C_2H_5OH) and ammonia are used as carbon and nitrogen sources, respectively. Assume no product formation other than biomass. To produce 1 mole of biomass from 1 mole of ethanol, the number of moles of oxygen required will be
- Q.47 Saccharomyces cerevisiae is cultured in a chemostat (continuous fermentation) at a dilution rate of 0.5 h⁻¹. The feed substrate concentration is 10 g.L⁻¹. The biomass concentration in the chemostat at steady state will be _____ g.L⁻¹.

Assumptions: Feed is sterile, maintenance is negligible and maximum biomass yield with respect to substrate is 0.4 (g biomass per g ethanol).

Microbial growth kinetics is given by $\mu = \frac{\mu_m s}{K_s + s}$

where μ is specific growth rate (h⁻¹), $\mu_m = 0.7 \text{ h}^{-1}$, $K_s = 0.3 \text{ g.L}^{-1}$ and s is substrate concentration (g.L⁻¹).

- Q.48 Decimal reduction time of bacterial spores is 23 min at 121 °C and the death kinetics follow first order. One liter medium containing 10^5 spores per mL was sterilized for 10 min at 121 °C in a batch sterilizer. The number of spores in the medium after sterilization (assuming destruction of spores in heating and cooling period is negligible) will be $\times 10^7$.
- Q.49 A bioreactor is scaled up based on equal impeller tip speed. Consider the following parameters for small and large bioreactors:

Assuming geometrical similarity and the bioreactors are operated in turbulent regime, what will be P_2/P_1 ?

- $(A) (D_1/D_2)^2$
- (B) $(D_2/D_1)^2$
- (C) $(D_1/D_2)^5$
 - (D) $(D_2/D_1)^5$

BT

Q.50 An enzyme converts substrate A to product B. At a given liquid feed stream of flow rate 25 L.min⁻¹ and feed substrate concentration of 2 mol.L⁻¹, the volume of continuous stirred tank reactor needed for 95% conversion will be _____ L.

Given the rate equation:
$$-r_A = \frac{0.1C_A}{1 + 0.5C_A}$$

where $-r_A$ is the rate of reaction in mol.L⁻¹.min⁻¹ and C_A is the substrate concentration in mol.L⁻¹. *Assumptions*: Enzyme concentration is contant and does not undergo any deactivation during the reaction.

Q.51 A protein is to be purified using ion-exchange column chromatography. The relationship between HETP (Height Equivalent to Theoretical Plate) and the linear liquid velocity of mobile phase is given by:

$$H = \frac{A}{u} + Bu + C$$

where H is HETP (m) and u is linear liquid velocity of mobile phase (m.s⁻¹). The values of A, B and C are 3×10^{-8} m².s⁻¹, 3 s and 6×10^{-5} m, respectively. The number of theoretical plates based on **minimum** HETP for a column of 66 cm length will be _______.

- Q.52 An enzyme is immobilized on the surface of a **non-porous** spherical particle of 2 mm diameter. The immobilized enzyme is suspended in a solution having bulk substrate concentration of 10 mM. The enzyme follows first order kinetics with rate constant 10 s⁻¹ and the external mass transfer coefficient is 1 cm.s⁻¹. Assume steady state condition wherein rate of enzyme reaction (mmol.L⁻¹.s⁻¹) at the surface is equal to mass transfer rate (mmol.L⁻¹.s⁻¹). The substrate concentration at the surface of the immobilized particle will be _____ mM.
- Q.53 $\frac{d^2y}{dx^2} y = 0$. The initial conditions for this second order homogeneous differential equation are y(0) = 1 and $\frac{dy}{dx} = 3$ at x = 0
- Q.54 The value of determinant A given below is .

The value of y when x = 2 is _____.

$$A = \begin{pmatrix} 5 & 16 & 81 \\ 0 & 2 & 2 \\ 0 & 0 & 16 \end{pmatrix}$$

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Q.55 Consider the equation

$$V = \frac{aS}{b + S + \frac{S^2}{c}}$$

Given a = 4, b = 1 and c = 9, the **positive** value of S at which V is maximum, will be _____.

END OF THE QUESTION PAPER

BT 10/10

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Q. No	Туре	Section	Key	Marks
1	MCQ	GA	В	1
2	MCQ	GA	Α	1
3	MCQ	GA	D	1
4	MCQ	GA	С	1
5	MCQ	GA	В	1
6	MCQ	GA	С	2
7	MCQ	GA	С	2
8	MCQ	GA	С	2
9	MCQ	GA	A	2
10	MCQ	GA	С	2
1	MCQ	BT	C	1
2	MCQ	BT	D	1
3	MCQ	BT	D	1
4			В	1
	MCQ	BT		1
5	MCQ	BT	D D	1
6	MCQ	BT		
7	MCQ	BT	В	1
8	MCQ	BT	D	1
9	MCQ	BT	В	1
10	MCQ	ВТ	D	1
11	MCQ	BT	В	1
12	MCQ	BT	D	1
13	MCQ	BT	A ; D	1
14	MCQ	BT	С	1
15	MCQ	BT	D	1
16	MCQ	ВТ	С	1
17	MCQ	BT	В	1
18	MCQ	BT	В	1
19	MCQ	BT	С	1
20	NAT	ВТ	625.0 : 625.0	1
21	MCQ	ВТ	В	1
22	NAT	ВТ	24.5 : 28.5	1
23	NAT	ВТ	3.0:3.0	1
24	MCQ	ВТ	С	1
25	NAT	ВТ	1.65 : 1.75	1
26	MCQ	ВТ	А	2
27	MCQ	ВТ	С	2
28	MCQ	BT	В	2
29	MCQ	BT	A	2
30	MCQ	BT	В	2
31	MCQ	BT	В	2
32	MCQ	BT	D	2
33	MCQ	BT	С	2
34	NAT	BT	1.3 : 1.8	2
35				2
	NAT	BT	147.0 : 170.0	
36	MCQ	BT	C	2
37	MCQ	BT	B ; D	2
38	MCQ	BT	С	2
39	MCQ	BT	С	2

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40	MCQ	ВТ	А	2
41	MCQ	ВТ	В	2
42	NAT	ВТ	8.6 : 9.4	2
43	NAT	ВТ	0.37 : 0.43	2
44	NAT	ВТ	525.0 : 555.0	2
45	MCQ	ВТ	В	2
46	NAT	ВТ	1.9 : 2.0	2
47	NAT	ВТ	3.65 : 3.75	2
48	NAT	ВТ	3.6 : 3.8	2
49	MCQ	ВТ	В	2
50	NAT	ВТ	4986 : 4989	2
51	NAT	ВТ	1000.0 : 1000.0	2
52	NAT	ВТ	7.5 : 7.5	2
53	NAT	ВТ	14.55 : 14.75	2
54	NAT	ВТ	160.0 : 160.0	2
55	NAT	ВТ	3.0:3.0	2