Roll. No					Question Booklet Number		
O.M.R. Serial No.							

B.Sc. (PART-II) EXAMINATION, 2021 **BIOTECHNOLOGY (NEW COURSE)**

[PAPER : Fifth (BBT-205)]

(Computational Biology and Bioinformatics)

Paper ID		
5	0	7

Ouestion Booklet Series

Max. Marks: 150

Time: 1:30 Hours

Instructions to the Examinee:

- 1. Do not open this Booklet untill you are told to do so.
- 2. Candidates should fill their roll number, subject and series of question booklet details correctly, otherwise, in case of any discrepancy in the evaluation, it will be the responsibility of the examinee himself.
- 3. There are 100 questions in the booklet. Examinee is required to answer only 75 questions in the OMR Answer Sheet provided. Four alternative answer to each question are given below the question, out of these four only one answer is correct. The answer which you think is correct or most appropriate, completely fill in the circle containing its letter in your answer sheet (O.M.R. Answer Sheet) with black or blue ball point pen.

परीक्षार्थियों के लिए निर्देश :

- 1. जब तक कहा न जाये, इस प्रश्नपुस्तिका को न खोलें।
- परीक्षार्थी अपने अनुक्रमांक, विषय एवं प्रश्नपूरितका की सिरीज का विवरण यथास्थान सही-सही भरें, अन्यथा मुल्यांकन में किसी भी प्रकार की विसंगति की दशा में उसकी जिम्मेदारी स्वयं परीक्षार्थी की होगी।
- प्रश्न-पुस्तिका में 100 प्रश्न हैं। परीक्षार्थी को केवल 75 3. प्रश्नों का उत्तर दी गई OMR उत्तर-पत्रक में देना है। प्रत्येक प्रश्न के चार वैकल्पिक उत्तर प्रश्न के नीचे दिये गये हैं। इन चारों में से केवल एक ही उत्तर सही है। जिस उत्तर को आप सही या सबसे उचित समझते हैं, अपने उत्तर-पत्रक (O.M.R. Answer Sheet) में उसके अक्षर वाले वृत्त को काले या नीले बॉल प्वाइंट पेन से पूरा भर दें।

(Remaining instructions on last page)

(शेष निर्देश अन्तिम पृष्ट पर)

ROUGH WORK

1.	Next Generation Ssequencing Technology refers to :	6.	Which of the following are Genome Assembly Algorithms ?
	(A) Sequencing genome regions multiple times		(A) Overlap Layout Consensus (OLC)
	(B) Massively parallel sequencing		(B) K-mer or de Bruijn Graph
	technology		(C) Both (A) and (B)
	(C) Creating cDNA library		(D) None of the above
•	(D) Creating amplicon library	_	
2.	The main features of Illumina NGS are:	7.	Depth coverage in genome sequencing can
	(A) Tracking of labeled nucleotides as DNA chain is copied (SBS technology)		be calculated using formula $N \times \frac{L}{G}$ where
	(B) Use of emulsion PCR		N refers to :
	(C) None of the above		(A) Number of read length
3.	(D) Both (A) and (B) Which of the following is used for protein		(B) Number of reads
	structure validation ?		(C) Average read length
	(A) Blast		(D) Genome size
	(B) PROCHECK	8.	Which of the following databases use
	(C) FASTA	0.	profiles to classify proteins ?
4.	(D) NGS In ligand-protein interaction analysis,		(A) PROSITE
	amino acid is considered as most flexible		(B) SQL
	and the least flexible amino acid.		. ,
	(A) glycine, proline		(C) PYTHON
	(B) proline, glycine		(D) PUBMED
	(C) atom, bond	9.	Profiles are built by converting multiple
5.	(D) bond, atom Which of the following is Genome Assembly		sequence alignments into:
0.	Software?		(A) Fingerprints
	(A) PyMol		(B) Position-specific scoring Matrices
	(B) SWISSMODEL		
	(C) PHYLIP		(C) Transcript profiles
	(D) CELERA		(D) Biological databases
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10.	Functional genomics studies utilize which of the following technologies ?	14.	is the study of how genes and intergenic regions of genome affect
	(A) Transposon		biological processes.
	(B) CRISPR Cas		(A) Structural genomics
	(C) RNAi		(B) Functional genomics
	(D) All of the above		(C) Biostatistics
11.	Gene ontology permits description of genes		(D) Biochemistry
	and its products on the basis of :	15.	Which of the following statement is correct?
	(A) Genome, organism, species		(A) Predicted set of proteins for a genome is proteome
	(B) Molecular function, biological process in which it participates, cellular location		(B) Predicated set of RNA for a genome is transcriptome
	(C) Molecular structure, cellular location and transcript		(C) Entire set of protein encoded by genome is proteome
	(D) Molecular function, gene loci, map		(D) None of the above
12.	Probablistic functional gene networks are used for :	16.	During genome assembly, sequences created from alignment of highly similar
	(A) RNA quantification		single reads are known as :
	(B) Creating phylogenetic analysis		(A) Contigs
	(C) Constructing interactions between		(B) Pair end reads
	genes of metabolic pathways		(C) Concatemers
	(D) Determining macromolecule structure		(D) Scaffolds
13.	In genetic network, genes are represented	17.	Whole Exome Sequencing refers to :
	by, and pairwise relationship between genes are represented by		(A) Sequencing of all RNA genes
	(A) nodes, edges		(B) Sequencing of all protein coding genes in a genome
	(B) edge, node		(C) Sequencing of all genome
	(C) node, internode		(D) Sequencing of heterochromatin portion
	(D) node, interedge		of genome

- 18. Next Generation Sequencing cannot be used for:

 (A) Genome sequencing
 (B) Detection of sequence variation
 (C) Molecular docking
 (D) SNP detection

 19. The first NGS platform commercially available was:

 (A) Roche/454 Genome sequencer
 (B) Illumina/Solexa Genome sequencer
 (C) ABI Solid Genome Sequencer
- 20. Global sequence alignment uses which type of dynamic programming ?

(D) Heliscope Genome Sequencer

- (A) Smith-Waterman algorithm
- (B) Needleman-Wunsch algorithm
- (C) None of the above
- (D) All of the above
- 21. VMD stands for :
 - (A) Visual Molecular Device
 - (B) Visual Molecular Database
 - (C) Video Machine Design
 - (D) Visual Molecular Dynamics
- 22. Gene prediction of introns and exons need not be performed for :
 - (A) Mouse
 - (B) Fungi

- (C) Algae
- (D) Bacteria
- 23. Which of the following statements is incorrect?
 - (A) Phylogenetic profiles shows genes not commonly present in organisms
 - (B) Linked genes are present on same chromosome
 - (C) Set of genes whose expression pattern in similar are likely to have related function
 - (D) Microarray detect global transcript changes
- 24. In a typical GWAS study, common variants in individuals with or without a common disease are identified using :
 - (A) CRISPR editing
 - (B) Genome wide SNP arrays
 - (C) Restriction mapping
 - (D) Ultracentrifugation
- 25. Which of the following genomic library screening strategies does not depend on expression?
 - (A) Screening using antibody
 - (B) Functional screening
 - (C) Using degenerate oligonucleotide primers
 - (D) Using EST

26.	PAM Matrix is used for :	30.	BLOSUM 80 is useful for comparing :
	(A) Multiple sequence alignment		(A) Distant sequences
	(B) Local alignment		(B) Unrelated sequences
	(C) Global alignment		(C) Closely related sequence
	(D) All of the above		(D) Divergent sequences
27.	In FASTA program, scoring matrix is formatted to include :	31.	What is the color key for alignment scores > = 200 in NCBI blast search?
	(A) gap addition		
	(B) no gap penalties		(A) Green
	(C) gap penalties		(B) Red
	(D) units		(C) Pink
28.	In affine gap penalty:		(D) Blue
	(A) gap opening and gap extension receives same score	32.	In which year was NCBI BLAST program developed ?
	(B) gap opening has higher score than gap extension		(A) 1990
	(C) Gap opening has lower score than gap		(B) 1989
	extension		(C) 1992
	(D) None of the above		(D) 1991
29.	Which of the following is incorrect about BLOSUM?	33.	In BLAST, word from query sequence contains residues for proteins and
	(A) Stands for BLOCKS Substitution Matrix		residues for DNA respectively.
	(B) Based on global alignment		(A) three, four
	(C) Used for sequence alignment of proteins		(B) one, three
	(D) Useful for evolutionary divergent protein sequences		(C) three, three(D) three, eleven

34.	Which of the following is NOT an probabilistic functional gene network?	38.	What is the difference between synonymous and non-synonymous single nucleotide polymorphism?
	(A) NetGen		(A) Synonymous SNP do not result in amino
	(B) BLAST		acid change in protein, but non-
	(C) BlomeNet		synonymous do
	(D) YeastNet v.2		(B) Synonymous SNP change protein sequence while non-synonymous SNP do not
35.	In molecule viewing platforms, ribbon diagrams use cylinders/spiral and broad flat		(C) Both cause no change
	arrows to represent and		(D) None of the above
	respectively.	39.	The process of determining the complete
	(A) α -helices, β -strands	00.	DNA sequence of an organism at a single time is known as :
	(B) β -strands, α -helices		(A) DNA profiling
	(C) α -helices, β -galactosidase		(B) Whole Genome Sequencing (WGS)
	(D) Wires, backbone		(C) Whole Exome Sequencing (WES)
36.	RNA microarrays :		(D) Genome printing
	(A) monitor 1000s of gene simultaneously	40.	Strategies used for sequencing of large genomes include :
	(B) make use of ligand protein interaction		(A) Whole-genome shotgun sequencing
	(C) perform DNA amplification		(B) BAC-by-BAC sequencing
			(C) Both (A) and (B)
	(D) visualize macromolecule structures		(D) None of the above
37.	In Ball and Stick model, ball represents atoms. The size of the ball corresponds to :	41.	Hypothesis free studies useful for identifying associations between genetic loci and traits
	(A) type of bond		are known as:
	(B) van der Waals radii of atom		(A) Genome wide association studies(B) Genetic with association sequences
	(C) α -helices		(C) Gene wise association sequences
	(D) all of the above		(D) Genome wide accelerated studies

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- 42. GWAS studies can help in crop improvement by :
 - (A) analyzing inheritance modes of traits
 - (B) studying association between SNP and desired phenotypic traits
 - (C) identifying quantitative trait loci for stress responses
 - (D) all of the above
- 43. Which of the following is false regarding HUGO?
 - (A) Established as non-profit organization in 1988
 - (B) Goal to build genetic and physical map of human and chimpanzee genome
 - (C) Sequence human genome
 - (D) Map and identify all human genes present in nucleotide sequence
- 44. Ab initio based programs for gene prediction, algorithms rely on :
 - (A) Gene signals
 - (B) Gene content
 - (C) Both gene signal and gene content
 - (D) Type of organism
- 45. Genome wide association mapping measures :
 - (A) correlation between marker alleles and allele in a population
 - (B) measures recombination between marker and unknown gene

- (C) both (A) and (B)
- (D) none of the above
- 46. As E value of a BLAST search becomes smaller, the score tends to be :
 - (A) Smaller
 - (B) Larger
 - (C) Same
 - (D) Zero
- 47. In prokaryotic gene prediction, start codon used include :
 - (A) ATG
 - (B) ACG
 - (C) ATG, GTG, TTG
 - (D) UAG
- 48. Codon usage bias in functional genomics refers to :
 - (A) genome structure
 - (B) differences in frequency of occurrence of synonymous codons in coding DNA
 - (C) computational tool
 - (D) none of the above
- 49. Shotgun sequencing strategy for sequencing human genome was given by :
 - (A) Craig Venter at Celera Genomics
 - (B) J. Watson at Celera Genomics
 - (C) Lipman at NIH
 - (D) Crick at NIH

50. I	Building sub-databases can be done using :	55.	Comparative genomics hybridization is a technique that can:		
((A) Web data extraction system				
((B) Using microarrays		(A) detect genetic abnormalities in tumors(B) detect chromosomal changes without need for cell culturing		
((C) Next Generation Sequencing				
((D) Using PyMol		(C) none of the above		
51. \	What is a profile in bioinformatics?		(D) Both (A) and (B)		
((A) It contains position-specific weights for amino acid substitution and penalties for gaps	56.	EcoTILLING, a procedure used for indentifying allelic variants for gene targeting in natural collections was first applied to the		
((B) Address file		crop: (A) Rice		
((C) Protein structure definition		(B) Pea		
((D) All of the above		(C) Melon		
52. I	DNA sequencing is part of :		(D) Wheat		
((A) Structural genomics	57.	HUGO International Mission Statement consists of : (A) Promoting fundamental genomic research within nations and throughout		
((B) Functional genomics				
(C) Genetics	(C) Genetics				
((D) Forward genetics		the world (P) Factor scientific evaluation in generalize		
53. I	EST stands for (in bioinformatics):		 (B) Foster scientific exchange in genomics particularly in scientifically developing and emerging countries (C) Support discourse in genetic and genomic ethics (D) All of the above 		
((A) Exon Sequence Tags				
((B) Expressed Sequence Tags				
((C) Expression System Template				
((D) Exon Sequence Template	58.	Which of the following is incorrect regarding		
	The starting of FASTA format has		scaffolds in genome sequence assembly ? (A) Consists of contigs separated by gaps		
((A) >		(B) Gap sequence between contig		
((B) <		(C) Contig sequence linked by pair end reads		
((C) /		(D) Contig sequence linked by mate pair		
((D) *		libraries		
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59.	Computational biology involves development and application of to study biological systems.	63.	Which of the following are not macromolecule visualization platforms :
	(A) Graphs		(A) Cn3D
			(B) PyMol
	(B) Equation		(C) GWAS
	(C) Text		(D) Jmol
	(D) Theoretical Methods	64.	ENCODE stands for :
60.	GWAS stands for :		(A) Encyclopedia of DNA Elements
	(A) Global Wise Alignment Sequence		(B) Encyclopedia of Complete DNA
	(B) Genome Wide Association Studies		Expression
	(C) Global Wide Association Sequence		(C) Encyclopedia of Omics DNA Expression
	(D) Gene Wide Association Studies		(D) None of the above
61.	How many genes does the Human genome contain?	65.	Which of the following VISTA servers can be used to align nucleotide sequence to
	(A) 12000		whole genome assemblies ?
	(B) 9000		(A) VVg VISTA
	(C) 30000		(B) gVISTA
	(D) 60000		(C) mVISTA
62.	The part of genome that is common between		(D) phyloVISTA
	various species following comparative genomics analysis is called :	66.	Which of the following is true regarding ARTEMIS software?
	(A) Core genome		(A) Developed by Sanger Institute
	(B) Cot plot		(B) Genome browser and annotation tool
	(C) Pan genome		(C) None of the above
	(D) Whole genome		(D) All of the above

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67.	Which format is used for storing assembled genome sequence data?	71.	Which of the following is not variant of NCBI BLAST?
	(A) FASTA		(A) tblast x
	(B) FAST Q		(B) pblast x
	(C) ILLUMINA		(C) blast x
	(D) BLAST		(D) blast n
68.	The method of constructing genomes from large sequence reads without a reference genome sequence is known as:	72.	Fluorescent labelled nucleotides are used for identifying sequence in which of the following techniques?
	(A) comparative genomics		(A) Illumina
	(B) de novo sequence assembly		(B) PacBio
	(C) none of the above		· ,
	(D) all of the above		(C) Oxford Nanopore
69.	Which of the following queries protein		(D) All of the above
	sequence to nucleotide sequence database translated in all six reading frames?	73.	Which of the following is not a gene prediction tool ?
	(A) tblast x		(A) GLIMMER
	(B) tblast n		(B) GeneMark
	(C) pblast n		(C) FGENESH
	(D) blast x		(D) GOAT
70.	Dot plots to visualize similarity between 2 protein or nucleotide sequence was introduced by:	74.	Two proteins sharing high level of sequence identity are likely to :
	(A) Smith Waterman		(A) differ in function
	(B) Needleman Wunsch		(B) be closely linked on chromosome
	(C) Gibbs and McIntyre		(C) share same function
	(D) Lipman		(D) be in non-coding region of genome
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75. Functional genomics provides indepth 79. Application of informatics techniques to analysis of: obtain, store, analyze and interpret large biological data is known as: (A) Coding region of genome (A) Literature (B) Non-coding region of genome (B) Statistics (C) Both (A) and (B) (C) Bioinformatics (D) None of the above 76. (D) Mathematics Gene prediction tool GLIMMER stands for : (A) Gene Locater and Interpolated Markov 80. Sequencing errors defined as 'probability of base being incorrect' is given by: Modeler (B) Genome Locater and Interpolated (A) Phred score Markov Modeler (B) PAM score (C) Gene Location and Interpretation (C) Was score Machine Model (D) N₅₀ (D) None of the above 81. Method used for predicting binding 77. Study of effect of genome to find a link conformation of ligand to appropriate target between genotype and phenotype is binding site is known as: termed as: (A) Signal prediction (A) Structural genomics (B) Biostatistics (B) Molecular systems (C) Functional genomics (C) Networking (D) Gene engineering (D) Molecular docking 78. Tilling arrays are used in genome annotation 82. What are the challenges associated with for: whole genome sequencing assembly? (A) Gene sequencing (A) Repeat sequences (B) Genome wide mapping of transcript (B) Polymorphism positions (C) Sequencing errors (C) Proteome identification (D) All of the above (D) Array designing

83.	The size of draft human genome sequence was :	87.	For perfectly aligned protein sequences, dot plot will show :
	(A) 3x10 ⁹ bp		(A) Diagonal formation
	(B) 3x10 ⁹ kbp		(B) No diagonals
	(C) 3x10 ⁹ bases		(C) Two intersecting diagonals
	(D) 3x10 ⁹ Mbp		(D) Parallel diagonals
84.	A parameter that describes number of hits expected by chance when searching a database is :	88.	In dot plots, insertion and deletion of nucleotides will be represented respectively by :
	(A) Gap value (G)		(A) Horizontal, vertical frameshift
	(B) Expect value (E)		(B) Vertical, horizontal frameshift
	(C) Score value (S)		(C) Small crosses
	(D) Probability value (P)		(D) None of the above
85.	BLAST program was developed by :	89.	Which of the following is true for PAM matrices?
	(A) Pearson and Lipman		(A) Point Altered Mutation
	(B) Stephen Altschul		(B) Percent Altered Mutations
	(C) Frederick Sanger		(C) Point Advanced Matrix
	(D) Margaret Dayhoff		(D) Point Accepted Mutation
86.	BLAST and FASTA are similarity searching	90.	Global alignment is useful for :
	programs based on :		(A) Aligning closely related sequences
	(A) Heuristic algorithms		(B) Based on dynamic programming
	(B) Word algorithm		(C) Alignment for every residue in every
	(C) Exact algorithm		sequence
	(D) All of the above		(D) All of the above

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- 91. In polymorphisms in DNA sequences, VNTR stands for :
 - (A) Very Numerous Transposon Repeat
 - (B) Variable Number Tandem Repeat
 - (C) Variable Number Transposon Repeat
 - (D) Variable Nature Tandem Repeat
- 92. By default, PyMol will display molecule(s) in PDB file as :
 - (A) Wireframe
 - (B) Cylindrical helices
 - (C) Ribbons
 - (D) Smooth loops
- 93. The most common way to evaluate ligand protein alignment using docking is:
 - (A) RMSD value
 - (B) RSMD value
 - (C) Cluster value
 - (D) Van der walls force
- 94. Which of the following are parameters in ligand protein docking?
 - (A) Calculating binding affinity
 - (B) Considering degress of freedom
 - (C) Ligand flexibility
 - (D) All of the above
- 95. Sequencing method where base sequences are called on the basis of luciferin mediated reaction is:
 - (A) Sanger's dideoxy method
 - (B) Pyrosequencing
 - (C) Maxam-Gilbert chemical reaction
 - (D) Microarray hybridization

- 96. BLAST tools can be used for the determination of which of the following options?
 - (A) Identify coding regions of genome
 - (B) Identify intron-exon boundaries
 - (C) Establish phylogeny
 - (D) All of the above
- 97. What are the uses of Paired End Sequencing?
 - (A) Detection of repetitive sequences
 - (B) Detection of genomic rearrangements
 - (C) Detection of gene fusions
 - (D) All of the above
- 98. Epigenome can be defined as:
 - (A) Set of chemical modifications to DNA and DNA associated proteins in a cell
 - (B) Mixture of genome
 - (C) Episomal portion of genome
 - (D) Mitochondrial genome
- 99. Which of the following is incorrect regarding VMD?
 - (A) Several molecular rendering and coloring methods
 - (B) Does not include multiple sequence alignment plugin
 - (C) Built on Tcl/Tk and Python
 - (D) Read protein data bank files
- 100. The most commonly used large insert clone for genome sequencing is :
 - (A) Cosmid
 - (B) Fosmid
 - (C) Bacterial Artificial Chromosome
 - (D) Human Artificial Chromosome

ROUGH WORK

Example:

Question:

Q.1 (A) (C) (D)

Q.2 **A B O**

Q.3 **A** • **C D**

If more than 75 questions are attempted by candidate, then the first attempted 75 questions will be considered for evaluation.

- 4. Each question carries equal marks.

 Marks will be awarded according to the number of correct answers you have.
- All answers are to be given on OMR Answer Sheet only. Answers given anywhere other than the place specified in the answer sheet will not be considered valid.
- 6. Before writing anything on the OMR Answer Sheet, all the instructions given in it should be read carefully.
- 7. After the completion of the examination, candidates should leave the examination hall only after providing their question booklet and OMR Answer Sheet separately to the invigilator.
- 8. There will be no negative marking.
- 9. Rough work, if any, should be done on the blank pages provided for the purpose in the booklet.
- To bring and use of log-book, calculator, pager & cellular phone in examination hall is prohibited.
- 11. In case of any difference found in English and Hindi version of the question, the English version of the question will be held authentic.

Impt. On opening the question booklet, first check that all the pages of the question booklet are printed properly. If there is any discrepancy in the question Booklet, then after showing it to the invigilator, get another question Booklet of the same series.

उदाहरण :

प्रश्न :

प्रश्न 1 **(A) (D) (D)**

प्रश्न 2 **(A) (B) (D)**

प्रश्न 3 **A ● C D**

यदि परीक्षार्थी द्वारा 75 से अधिक प्रश्नों को हल किया जाता है तो प्रारम्भिक हल किये हुए 75 उत्तरों को ही मूल्यांकन हेतु सम्मिलित किया जाएगा।

- प्रत्येक प्रश्न के अंक समान हैं। आपके जितने उत्तर सही होंगे, उन्हीं के अनुसार अंक प्रदान किये जायेंगे।
- 5. सभी उत्तर केवल ओ०एम०आर० उत्तर-पत्रक (OMR Answer Sheet) पर ही दिये जाने हैं। उत्तर-पत्रक में निर्धारित स्थान के अलावा अन्यत्र कहीं पर दिया गया उत्तर मान्य नहीं होगा।
- 6. ओ॰एम॰आर॰ उत्तर-पत्रक (OMR Answer Sheet) पर कुछ भी लिखने से पूर्व उसमें दिये गये सभी अनुदेशों को सावधानीपूर्वक पढ़ लिया जाये।
- 7. परीक्षा समाप्ति के उपरान्त परीक्षार्थी कक्ष निरीक्षक को अपनी प्रश्नपुस्तिका बुकलेट एवं ओ०एम०आर० शीट पृथक-पृथक उपलब्ध कराने के बाद ही परीक्षा कक्ष से प्रस्थान करें।
- 8. निगेटिव मार्किंग नहीं है।
- 9. कोई भी रफ कार्य, प्रश्न-पुस्तिका में, रफ-कार्य के लिए दिए खाली पेज पर ही किया जाना चाहिए।
- 10. परीक्षा-कक्ष में लॉग-बुक, कैल्कुलेटर, पेजर तथा सेल्युलर फोन ले जाना तथा उसका उपयोग करना वर्जित है।
- 11. प्रश्न के हिन्दी एवं अंग्रेजी रूपान्तरण में भिन्नता होने की दशा में प्रश्न का अंग्रेजी रूपान्तरण ही मान्य होगा।

महत्वपूर्णः प्रश्नपुस्तिका खोलने पर प्रथमतः जाँच कर देख लें कि प्रश्नपुस्तिका के सभी पृष्ठ भलीभाँति छपे हुए हैं। यदि प्रश्नपुस्तिका में कोई कमी हो, तो कक्षनिरीक्षक को दिखाकर उसी सिरीज की दूसरी प्रश्नपुस्तिका प्राप्त कर लें।