

Roll No.

Question Booklet Number

O. M. R. Serial No.

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Question Booklet Number

M. Sc. (Fourth Semester)
(NEP) EXAMINATION, 2025-26
PHYSICS

(Physics of Nanomaterials) (Elective)

Paper Code						
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Questions Booklet Series A

Time : 1:30 Hours]

[Maximum Marks : 75

Instructions to the Examinee :

1. Do not open the booklet unless you are asked to do so.
2. The booklet contains 100 questions. Examinee is required to answer 75 questions in the OMR Answer-Sheet provided and not in the question booklet. All questions carry equal marks.
3. Examine the Booklet and the OMR Answer-Sheet very carefully before you proceed. Faulty question booklet due to missing or duplicate pages/questions or having any other discrepancy should be got immediately replaced.

परीक्षार्थियों के लिए निर्देश :

1. प्रश्न-पुस्तिका को तब तक न खोलें जब तक आपसे कहा न जाए।
2. प्रश्न-पुस्तिका में 100 प्रश्न हैं। परीक्षार्थी को 75 प्रश्नों को केवल दी गई OMR आन्सर-शीट पर ही हल करना है, प्रश्न-पुस्तिका पर नहीं। सभी प्रश्नों के अंक समान हैं।
3. प्रश्नों के उत्तर अंकित करने से पूर्व प्रश्न-पुस्तिका तथा OMR आन्सर-शीट को सावधानीपूर्वक देख लें। दोषपूर्ण प्रश्न-पुस्तिका जिसमें कुछ भाग छपने से छूट गए हों या प्रश्न एक से अधिक बार छप गए हों या उसमें किसी अन्य प्रकार की कमी हो, तो उसे तुरन्त बदल लें।

(Remaining instructions on the last page)

(शेष निर्देश अन्तिम पृष्ठ पर)

(Only for Rough Work)

1. Nanotechnology is an interdisciplinary field which combines :
 - (A) Only physics and biology
 - (B) Only chemistry and medicine
 - (C) Physics, chemistry, biology and engineering
 - (D) Only computer science
2. Nanomaterials are materials with at least one dimension in the range :
 - (A) 1-100 μm
 - (B) 1-100 nm
 - (C) 100-1000 nm
 - (D) 1-10 mm
3. Which atomic or nanoparticle crystal lattice has the greatest number of nearest neighbors ?
 - (A) Simple Cubic
 - (B) BCC
 - (C) FCC
 - (D) ZnS (Diamond)
4. Which one of the following is an example for top-down approach ?
 - (A) Ball milling technique
 - (B) Sol-gel process
 - (C) Agglomeration
 - (D) None of the above
5. How many tubes of graphite does single-walled nanotubes consists of ?
 - (A) 0
 - (B) 1
 - (C) 2
 - (D) 3
6. Quantum dots follow the quantization of potential wells in :
 - (A) zero-dimension
 - (B) one-dimension
 - (C) two-dimension
 - (D) three-dimension
7. Which of the following describes a one-dimensional structure ?
 - (A) Graphene
 - (B) Nanocomposite
 - (C) Nanowhisker
 - (D) None of the above
8. Which of the following is not true for Fullerenes ?
 - (A) They are the third crystalline form of carbon
 - (B) They are solids made entirely of carbon
 - (C) They have a cage structure
 - (D) None of the above

9. The possible structures of Nanotubes are :
- (A) Armchair only
 - (B) Zig-zag only
 - (C) Chiral only
 - (D) All of the above
10. A discrete density-of-states function belongs to :
- (A) Bulk
 - (B) Quantum-wire
 - (C) Quantum-dot
 - (D) Quantum-well
11. At what diameter (approximately) does a silver particle achieve quantum confinement at 38°C ?
- (A) 2 nm
 - (B) 6 nm
 - (C) 12 nm
 - (D) 24 nm
12. The energy needed to add one negatively charged electron to a quantum dot having capacitance is known as :
- (A) Work function
 - (B) Binding energy
 - (C) Charging energy
 - (D) Electron affinity
13. Which is the correct option for the two-dimensional nano structures ?
- (A) Diamond
 - (B) Graphene
 - (C) Carbon fiber
 - (D) Gold dot
14. Which of the following is an example of Bottom-up synthesis approach for nanomaterials ?
- (A) Chemical vapour deposition
 - (B) Ball milling
 - (C) Lithography
 - (D) None of the above
15. Surface morphology up to 0.2 nm can be measured using :
- (A) X-ray photoelectron spectroscopy
 - (B) Scanning Electron Microscopy
 - (C) Atomic Force Microscopy
 - (D) None of the above
16. Chirality of semiconducting carbon nanotubes can be determined using :
- (A) Energy dispersive analysis of X rays
 - (B) Particle Size Analyzer
 - (C) Scanning Electron Microscopy
 - (D) Photoluminescence Spectra

17. As the nano-particle size decreases, surface area to volume ratio :
- (A) Increases
 - (B) Decreases
 - (C) Remains same
 - (D) Cannot say
18. In Photo assisted CVD the heat input can be in the form of :
- (A) RF heating
 - (B) Arc lamps
 - (C) Microwave
 - (D) None of the above
19. Formation of an oxide network through polycondensation reactions of a molecular precursor in a liquid is called :
- (A) Sputtering
 - (B) Chemical vapor deposition
 - (C) Sol-Gel Process
 - (D) Metal-organic CVD
20. Choose the correct option for technique used in Physical vapour deposition :
- (A) Evaporation only
 - (B) Sputtering only
 - (C) Ablation only
 - (D) All of the above
21. Ultrapure films or particles can be produced by :
- (A) Sol gel method
 - (B) Solvo-thermal synthesis
 - (C) Physical vapour deposition
 - (D) None of the above
22. The most common method used to fabricate carbon nanotubes is :
- (A) Electric-arc discharge
 - (B) Sol gel method
 - (C) Solvo-thermal synthesis
 - (D) None of the above
23. What is the key feature of 1D nanomaterial ?
- (A) Isotropic behavior
 - (B) No electrical activity
 - (C) Anisotropic properties
 - (D) All of the above
24. Electron confinement occurs when the size of the material is comparable to electrons :
- (A) Avogadro length
 - (B) Energy band separation
 - (C) Mean free path
 - (D) de Broglie wavelength
25. What is a primitive cell ?
- (A) The shape of the atoms
 - (B) The unit with most atoms
 - (C) Smallest repeating unit in a lattice
 - (D) Largest volume of a crystal

26. At nanoscale, the lattice constant tends to due to surface
- (A) decrease, stress
 (B) increase, tensión
 (C) remain same, neutrality
 (D) vanish, stress
27. Why does resistivity increase in nanowires ?
- (A) High voltage
 (B) Electron- electron interaction
 (C) Magnetic scattering
 (D) Surface scattering
28. Which synthesis method allows deposition of monolayers on a substrate ?
- (A) Microemulsion
 (B) Evaporation
 (C) Melt mixing
 (D) Ball milling
29. In hydrothermal analysis reactions are carried out :
- (A) At low temperature in vacuum
 (B) In the presence of enzymes
 (C) With UV radiation
 (D) Under high temperature and pressure in aqueous medium
30. The density of state in a zero dimensional quantum structure is best represented by :
- (A) Constant value
 (B) Step like function
 (C) Dirac Delta functions
 (D) None of the above.
31. At absolute zero the Fermi Energy is the energy of :
- (A) The lowest occupied state
 (B) The highest occupied state
 (C) The lowest unoccupied state
 (D) A thermally excited state
32. In weak confinement, the nano particle radius is :
- (A) Smaller than Bohr radius
 (B) Equal to Bohr radius
 (C) Larger than Bohr radius
 (D) Irrelevant to excitation motion
33. Which structure of carbon nanotube is metallic ?
- (A) Zig-zag
 (B) Chiral
 (C) Armchair
 (D) Random

34. Which hybridization is responsible for flexibility of carbon nanotubes ?
- (A) sp
 (B) sp^2
 (C) sp^3
 (D) dsp^2
35. Who discovered carbon nanotubes ?
- (A) Richard Feynman
 (B) Alexey Ekimov
 (C) Sumio Iijima
 (D) Gerd Binnig
36. Why are nano materials crucial for energy devices ?
- (A) They prevent ionic movement
 (B) They reduce surface area
 (C) They are cheaper than all bulk materials
 (D) They increase light absorption conductivity and stability
37. Fullerenes are composed of carbon atoms arranged in and
- (A) chains, voids
 (B) rings, chains
 (C) hexagons, pentagons
 (D) hexagons, pentagons and rings
38. In photoluminescence the energy of emitted photon is :
- (A) Lower than absorbed photons
 (B) Equal to absorbed photons
 (C) Higher than absorbed photons
 (D) Independent of material
39. Which equation is commonly used to determine crystallite size from XRD peak broadening ?
- (A) Scherrer equation
 (B) Brag equation
 (C) Stokes-Einstein equation
 (D) Arrhenius equation
40. Transmission electron microscopy is used for :
- (A) Measuring magnetic field
 (B) Imaging of nanoparticles
 (C) Measuring transmission from nanostructures
 (D) Measuring resistivity of conducting nanotubes
41. Which one of the following is a naturally occurring nanomaterial ?
- (A) Titanium dioxide nanoparticles in sunflowers
 (B) Gold nanorods
 (C) Carbon nanotubes in circuits
 (D) Volcanic ash particles
42. What does Bloch's theorem describe ?
- (A) Defect states in solid
 (B) Free electron motion
 (C) Periodic wavefunctions in solids
 (D) Atomic transitions

43. According to the band theory of solids :
- (A) Insulators have overlapping bands
 - (B) Insulators become semi-conductors at high temperature
 - (C) Semiconductors have overlapping band structure
 - (D) Metals have partially filled or overlapping bands
44. The energy gap of a crystal which is transparent only to the light of wavelength longer than 510 nm is :
- (A) 0.6 eV
 - (B) 1.2 eV
 - (C) 2.4 eV
 - (D) 4.8 eV
45. In a one-dimensional lattice of interatomic separation a , the maximum wavelength of an electron that gets Bragg reflected is :
- (A) $a/4$
 - (B) $a/2$
 - (C) a
 - (D) $2a$
46. Which of the following crystal structures has least symmetry ?
- (A) Tetragonal
 - (B) Rhombohedral
 - (C) Triclinic
 - (D) Monoclinic
47. Which of the following has the highest packing factor ?
- (A) Diamond cubic
 - (B) Simple cubic
 - (C) Body centered cubic
 - (D) Hexagonal closed packed structure
48. In a BCC lattice, in which of the following planes there is no Bragg reflection ?
- (A) (112)
 - (B) (202)
 - (C) (221)
 - (D) (211)
49. Copper crystallizes in FCC structure with lattice parameter 3.61 \AA , the diameter of the largest atom that will fit in octahedral void is :
- (A) 0.52 \AA
 - (B) 1.06 \AA
 - (C) 1.6 \AA
 - (D) 2.2 \AA
50. A crystal lattice is defined as :
- (A) Random arrangement of atoms in three dimensions
 - (B) Short-range arrangement of molecules
 - (C) Periodic arrangement of atoms in three dimensions
 - (D) Disordered arrangement of ions

51. How many Bravais lattices exist in three dimensions ?
- (A) 3
(B) 7
(C) 14
(D) 32
52. The Free Electron theory of metals assumes :
- (A) Electrons are tightly bound to atoms
(B) Electrons move freely inside the lattice without collisions
(C) Electrons are stationary
(D) Only holes contribute to conduction
53. Density of States (DoS) in a band describes :
- (A) Number of atoms per unit volume
(B) Number of conduction electrons only
(C) Number of allowed electronic states per unit energy
(D) Mass density of electrons
54. According to band theory, an insulator generally has :
- (A) Completely filled valence band and large band gap
(B) Partially filled conduction band
(C) Overlapping valence and conduction bands
(D) Completely empty valence band
55. Diffusive transport occurs due to :
- (A) External electric field
(B) Random scattering with phonons, defects, or impurities
(C) Random scattering of electrons with magnons
(D) Uniform motion of electrons
56. The dominant scattering mechanism in metals at room temperature is :
- (A) Electron-phonon scattering
(B) Electron-electron scattering
(C) Electron-magnon scattering
(D) None of the above
57. Mobility of electrons in a metal decreases with :
- (A) Decreasing temperature
(B) Increasing scattering
(C) Increasing lattice perfection
(D) Decreasing scattering
58. Term 'Surface Energy' is defined as :
- (A) Energy required to remove an electron from the surface
(B) Thermal energy at the surfaces
(C) Energy required to create a unit area of surface
(D) Extra energy of bulk electrons

59. An interface is :
- (A) Edge of a single crystal
 - (B) Boundary between two different materials or phases
 - (C) Defect in the crystal
 - (D) A free surface
60. Surface states in semiconductors can :
- (A) Trap charges and scatter electrons
 - (B) Increase electron mobility always
 - (C) Eliminate the band gap
 - (D) Have no effect on conductivity
61. In classical theory, the variation of average energy of a free electron $\langle E \rangle$ with temperature T is best described by :
- (A) $\langle E \rangle \propto T$
 - (B) $\langle E \rangle \propto (1+T)$
 - (C) $\langle E \rangle \propto (1 + T^2)$
 - (D) $\langle E \rangle \propto (1+T)^2$
62. Grain boundaries in polycrystalline materials act as :
- (A) Perfect conductors
 - (B) Barriers to electron transport
 - (C) No effect on electron motion
 - (D) Only thermal barriers
63. Interfaces in semiconductor devices are crucial because they :
- (A) Never affect transport
 - (B) Only affect thermal conductivity
 - (C) Can introduce traps and recombination centers
 - (D) Only exist in metals
64. In metals, electrical conductivity depends primarily on :
- (A) Lattice vibrations only
 - (B) Band gap
 - (C) Surface roughness only
 - (D) Electron scattering and density of states at Fermi level
65. Which rule determines allowed electronic transitions in a semiconductor ?
- (A) Hund's rule
 - (B) Lande's interval rule.
 - (C) k-Selection rule
 - (D) Aufbau principle
66. Chemical vapor deposition involves :
- (A) Evaporation of material in vacuum
 - (B) Chemical reaction of gaseous precursors on a substrate
 - (C) Grinding of solids
 - (D) Laser ablation

67. Epitaxial growth is mainly used for :
- (A) Random nanoparticle formation
 - (B) Thin films deposition
 - (C) Same size Nanopowder production
 - (D) Hydrothermal synthesis
68. Etching in nanofabrication is used to :
- (A) Remove selected material to create patterns
 - (B) Deposit metal traces on substrates
 - (C) Reduce band gap
 - (D) Decrease particle size
69. Solvo-thermal synthesis differs from hydrothermal synthesis because :
- (A) It is a top-down method
 - (B) It requires ball milling
 - (C) It uses organic solvents
 - (D) It cannot work under heat
70. Microwave-assisted synthesis accelerates reactions due to :
- (A) Very high vacuum
 - (B) Fast mechanical grinding
 - (C) Fast photon-induced etching
 - (D) Rapid and uniform heating
71. Top-down approaches are suitable for :
- (A) OD nanoparticle synthesis only
 - (B) 2D and 1D nanomaterials
 - (C) Chemical reduction methods
 - (D) Hydrothermal synthesis
72. Ball milling can produce nanomaterials by :
- (A) Mechanical attrition of powders
 - (B) Breaking molecules into atoms
 - (C) Hydrothermal reduction of material
 - (D) Sol-gel condensation of bulk particles
73. Epitaxial growth requires :
- (A) Substrate with compatible lattice structure
 - (B) Substrate with identical mass
 - (C) A non-conducting rough substrate
 - (D) Only vacuum
74. Sol-gel derived nanomaterials are often used as :
- (A) Catalysts and sensors
 - (B) Pallets for laser ablation
 - (C) Coating materials
 - (D) All of the above
75. Lithography is commonly used in :
- (A) Fabricating nanoscale electronic devices
 - (B) Ball milling
 - (C) Chemical reduction process
 - (D) Hydrothermal growth of quantum dots

76. X-Ray diffraction is primarily used to determine :
- (A) Optical absorption and particle size
 - (B) Particle size and elemental composition
 - (C) Lattice parameter and crystal structure
 - (D) Magnetic structure
77. Electron diffraction can provide :
- (A) Crystallographic information at nanoscale
 - (B) Electrical conductivity
 - (C) Chirality of conducting nanotubes
 - (D) Surface roughness
78. Surface structure at atomic resolution can be analyzed using :
- (A) AFM and
 - (B) STM only
 - (C) Both (A) and (B)
 - (D) None of the above
79. Broadening of XRD peaks in nanomaterials is due to :
- (A) Distribution of particle size only
 - (B) Small particle size and strain
 - (C) Magnetic field
 - (D) Surface roughness only
80. Nanoparticle size can be determined by :
- (A) XRD peak broadening
 - (B) TEM imaging
 - (C) Dynamic light scattering
 - (D) All of the above
81. X-ray Photoelectron Spectroscopy is used to study :
- (A) Surface chemical composition and oxidation states
 - (B) Particle size and its distribution
 - (C) Lattice structure and size
 - (D) Electron microscopy images
82. Crystallinity of nanoparticles affects :
- (A) Color of solution only
 - (B) Magnetic field in semi-conductors
 - (C) XRD peak sharpness
 - (D) All of the above
83. Infrared spectroscopy provides information about :
- (A) Atomic lattice spacing
 - (B) Vibrational modes of bonds
 - (C) Electron diffraction from bonds
 - (D) Allowed electronic transitions

84. Transmission Electron Microscopy can provide :
- (A) Surface roughness only
 - (B) IR absorption in nanoparticles
 - (C) Internal structure of nanoparticles
 - (D) UV-Vis Transmission range
85. Which microscopy technique provides direct 3D surface topography ?
- (A) AFM
 - (B) TEM
 - (C) SEM
 - (D) Optical microscopy
86. Atomic arrangement in nanomaterials can be studied by :
- (A) TEM
 - (B) AFM
 - (C) STM
 - (D) All of the above
87. SEM is limited in resolving :
- (A) Surface morphology
 - (B) Grain size
 - (C) Atomic scale features
 - (D) Nanoparticle aggregation
88. AFM can be operated in :
- (A) Contact mode
 - (B) Tapping mode
 - (C) Non-contact mode
 - (D) All of the above
89. Raman D-band in carbon nanomaterials indicates :
- (A) Defects or disorder
 - (B) Radial breathing
 - (C) Presence of diamond
 - (D) Tangential vibrations of carbon atoms
90. SEM combined with Energy Dispersive X-ray Spectroscopy provides :
- (A) Surface roughness and elemental structure
 - (B) Surface morphology and elemental composition
 - (C) Elemental ionization and band gap
 - (D) Optical images with rotational spectra
91. Hydrothermal and Solvo-thermal methods are preferred because :
- (A) They allow size-controlled synthesis and low crystallinity
 - (B) They require ball milling for high crystallinity
 - (C) They allow shape-controlled synthesis and high crystallinity
 - (D) They only produce bulk powders for oxides

92. Chemical reduction methods are widely used to synthesize :
- (A) Thin films
 - (B) Nanoparticles
 - (C) Graphene sheets
 - (D) All of the above
93. 0D nanomaterials include :
- (A) Nanosheets
 - (B) Nanowires
 - (C) Quantum dots
 - (D) Nanofibers
94. Gold nanoparticles crystallize in FCC structure with lattice parameter 0.408 nm. What the largest atomic diameter that will fit in tetrahedral void ?
- (A) 0.016 nm
 - (B) 0.032 nm
 - (C) 0.048 nm
 - (D) 0.064 nm
95. Semiconductor nanomaterials exhibit size-dependent band gap because :
- (A) Electron effective mass decreases with decreasing size
 - (B) Electron density decreases with decreasing size
 - (C) Confinement increases energy separation
 - (D) Band gap varies linearly with size
96. Optical properties of Nanostructured metals are dominated by :
- (A) Lattice vibrations
 - (B) Electron spin only
 - (C) Bulk conductivity
 - (D) Surface plasmon resonance
97. In a quantum well, the motion of electrons is restricted in :
- (A) A line
 - (B) A plane
 - (C) A cylinder
 - (D) None of the above
98. Mean free path in nanomaterials is often :
- (A) Longer than bulk due to fewer defects
 - (B) Shorter than bulk due to surface scattering
 - (C) Negligible
 - (D) Infinite
99. Silver nanoparticles exhibit Surface plasmon resonance in :
- (A) Infrared region
 - (B) Ultraviolet region
 - (C) Visible region
 - (D) X-ray region
100. Combining TEM, XRD, and Raman spectroscopy for nanomaterials allows comprehensive :
- (A) Transmission, structural and rotational analysis
 - (B) Electrical, structural, and vibrational analysis.
 - (C) Structural, crystallographic, and chemical analysis
 - (D) All of the above

(Only for Rough Work)

4. Four alternative answers are mentioned for each question as—A, B, C & D in the booklet. The candidate has to choose the correct answer and mark the same in the OMR Answer-Sheet as per the direction :

Example :

Question :

Q. 1 (A) ● (C) (D)

Q. 2 (A) (B) ● (D)

Q. 3 (A) ● (C) (D)

Illegible answers with cutting and over-writing or half filled circle will be cancelled.

5. Each question carries equal marks. Marks will be awarded according to the number of correct answers you have.
6. 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.
7. Before writing anything on the OMR Answer Sheet, all the instructions given in it should be read carefully.
8. After the completion of the examination candidates should leave the examination hall only after providing their OMR Answer Sheet to the invigilator. Candidate can carry their Question Booklet.
9. There will be no negative marking.
10. Rough work, if any, should be done on the blank pages provided for the purpose in the booklet.
11. To bring and use of log-book, calculator, pager and cellular phone in examination hall is prohibited.
12. 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.

4. प्रश्न-पुस्तिका में प्रत्येक प्रश्न के चार सम्भावित उत्तर—A, B, C एवं D हैं। परीक्षार्थी को उन चारों विकल्पों में से सही उत्तर छँटना है। उत्तर को OMR आन्सर-शीट में सम्बन्धित प्रश्न संख्या में निम्न प्रकार भरना है :

उदाहरण :

प्रश्न :

प्रश्न 1 (A) ● (C) (D)

प्रश्न 2 (A) (B) ● (D)

प्रश्न 3 (A) ● (C) (D)

अपठनीय उत्तर या ऐसे उत्तर जिन्हें काटा या बदला गया है, या गोले में आधा भरकर दिया गया, उन्हें निरस्त कर दिया जाएगा।

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

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