| Roll No           |  | Paper Code                         |   |   | प्रश्नपुस्तिका क्रमांक<br>Question Booklet No. |   |
|-------------------|--|------------------------------------|---|---|--|---|
|                   |  | 5                                  | 7 | 8 | Question bookiet No.                           |   |
|                   |  | (To be filled in the<br>OMR Sheet) |   |   |  |   |
| O.M.R. Serial No. |  |                                    |   |   | प्रश्नपुस्तिका सीरीज<br>Question Booklet Serie | s |
|                   |  |                                    |   |   | Α  |   |

# M.Sc (Biotechnology) Third Semester, Examination, February/March-2022 MBT-3001 Cellular and Molecular Immunology

#### Time : 1:30 Hours

#### Maximum Marks-100

जब तक कहा न जाय, इस प्रश्नपुस्तिका को न खोलें

- निर्देश : 1. परीक्षार्थी अपने अनुक्रमांक, विषय एवं प्रश्नपुस्तिका की सीरीज का विवरण यथास्थान सही– सही भरें, अन्यथा मूल्यांकन में किसी भी प्रकार की विसंगति की दशा में उसकी जिम्मेदारी स्वयं परीक्षार्थी की होगी।
  - 2. इस प्रश्नपुस्तिका में 100 प्रश्न हैं, जिनमे से केवल 75 प्रश्नों के उत्तर परीक्षार्थियों द्वारा दिये जाने 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 बाल प्वांइट पेन से पूरा भर दें। यदि किसी परीक्षार्थी द्वारा निर्धारित प्रश्नों से अधिक प्रश्नों के उत्तर दिये जाते हैं तो उसके द्वारा हल किये गये प्रथमतः यथा निर्दिष्ट प्रश्नोत्तरों का ही मूल्यांकन किया जायेगा।
- 578
- प्रत्येक प्रश्न के अंक समान हैं। आप के जितने उत्तर सही होंगे, उन्हीं के अनुसार अंक प्रदान किये जायेंगे।
- 4. सभी उत्तर केवल ओ०एम०आर० उत्तर पत्रक (O.M.R. ANSWER SHEET) पर ही दिये जाने हैं। उत्तर पत्रक में निर्धारित स्थान के अलावा अन्यत्र कहीं पर दिया गया उत्तर मान्य नहीं होगा।
- 5. ओ०एम०आर० उत्तर पत्रक (O.M.R. ANSWER SHEET) पर कुछ भी लिखने से पूर्व उसमें दिये गये सभी अनुदेशों को सावधानीपूर्वक पढ़ लिया जाय।
- 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।
- 7. निगेटिव मार्किंग नहीं है।
- महत्वपूर्ण : प्रश्नपुस्तिका खोलने पर प्रथमतः जॉच कर देख लें कि प्रश्नपुस्तिका के सभी पृष्ठ भलीभॉति छपे हुए हैं। यदि प्रश्नपुस्तिका में कोई कमी हो, तो कक्ष निरीक्षक को दिखाकर उसी सीरीज की दूसरी प्रश्नपुस्तिका प्राप्त कर लें।

- 1. Which of the following is not involved in specific immunity?
  - (A) Neutrophil
  - (B) T cell
  - (C) Plasma cell
  - (D) B cell
- 2. Which of the following immunoglobulins is responsible for most allergic and hypersensitivity reactions?
  - (A) IgA
  - (B) IgG
  - (C) IgE
  - (D) IgM
- 3. Which one of the following is a primary lymphoid organ :
  - (A) Lymph nodes
  - (B) Spleen
  - (C) Peyer's patch
  - (D) Thymus
- 4. Antigen-specific B-cells can be purified by :
  - (A) Sedimentation rate
  - (B) Panning on anti-Ig plates
  - (C) Binding of fluorescent antigen and separation in the FACS
  - (D) Forward light scatter in the fluorescence activated cell sorter (FACS)
- 5. Artificially acquired passive immunity refers to immunity from :
  - (A) Transfer of antibodies from mother to foetus across the placenta
  - (B) Recognition of an antigen by B cells
  - (C) Injection of the antigen in a vaccination
  - (D) Recognition of an antigen by T cells

- 6. Auto-immunity develops due to :
  - (A) Loss of T cells
  - (B) Loss of plasma cells
  - (C) Loss of complement
  - (D) Loss of immunological tolerance
- 7. Chemicals released from mast cells during an allergic reaction include all of the following except :
  - (A) Histamine
  - (B) Interferons
  - (C) Prostaglandins
  - (D) Leukotrienes
- 8. The organs provide sites where lymphocytes mature and become antigenically committed.
  - (A) Primary lymphoid organs
  - (B) Secondary lymphoid organs
  - (C) Spleen
  - (D) None of the above
- 9. Severe combined immunodeficiency (SCID) can be treated with :
  - (A) Intravenous Immunoglobulin (IvIg)
  - (B) Haemopoetic Stem Cell Transplants (HSCT)
  - (C) Thymic transplantation
  - (D) Immunotherapy
- 10. A structural similarity between microbial antigens and self-proteins may trigger an autoimmune response following a systemic infection. The T cell population selected by a pathogen may cross react with self-antigen. This is known as :
  - (A) Anergy
  - (B) Molecular Mimicry
  - (C) Central Tolerance
  - (D) Suppression

- 11. Which type of hypersensitivity is characterized by a rapid'wheal and flare' following introduction of the antigen under the skin?
  - (A) I
  - (B) II
  - (C) III
  - (D) IV
- 12. The transplantation of tissue from one part of the body to another is called an :
  - (A) Auto graft
  - (B) Isograft
  - (C) Allograft
  - (D) Xenograft
- 13. Clonal selection occurs when antigen is encountered by :
  - (A) Neutrophils
  - (B) Mast cells
  - (C) T-cells
  - (D) Basophils
- 14. Plasma cells :
  - (A) Have a thin layer of cytoplasm
  - (B) Have a highly developed rough endoplasmic reticulum are derived from Tcells
  - (C) Develop into B-cells
  - (D) Secrete large amounts of gamma interferon
- 15. Specific antibodies are readily detectable in serum following primary contact with antigen after :
  - (A) 10 min
  - (B) 1 h
  - (C) 5-7 days
  - (D) 3-5 weeks

- 16. A plasma cell secretes :
  - (A) Antibody of a single specificity related to that on the surface of the parent Bcell
  - (B) Antibody of two antigen specificities
  - (C) The antigen it recognizes
  - (D) Many different types of antibody
- 17. Adoptive transfer of acquired immune responsiveness involves the transfer of :
  - (A) Serum
  - (B) Antibody
  - (C) Complement
  - (D) Lymphocytes
- The main reason an experimental animal treated with X-rays can act as a living test tube for lymphocyte transfer experiments is because :
  - (A) It is microbiologically sterile
  - (B) Complement components will be inactivated
  - (C) The host lymphocytes are destroyed or unable to divide
  - (D) Only non-dividing cells are affected
- 19. Immunological unresponsiveness to self-antigens is called :
  - (A) Tolerance
  - (B) Tolerogen
  - (C) Memory
  - (D) Acquired immunity
- 20. Edward Jenner vaccinated against smallpox using :
  - (A) Killed smallpox virus
  - (B) Cowpox
  - (C) A recombinant protein derived from smallpox
  - (D) An unrelated virus

- 21. Protective antibodies against infectious agents are often :
  - (A) Autoantibodies
  - (B) Neutralizing
  - (C) Toxoids
  - (D) Non-specific
- 22. Intracellular parasites within macrophages are killed more readily in the presence

of:

- (A) Gamma-interferon
- (B) Antibody
- (C) Kinins
- (D) Properdin
- 23. T cell surface receptors for antigen partly recognize :
  - (A) Cytokines
  - (B) MHC
  - (C) ADCC
  - (D) Antibody
- 24. An immune response against grass pollen often involves :
  - (A) Pathogen-associated molecular patterns
  - (B) Breakdown of self-tolerance
  - (C) A hypersensitivity reaction
  - (D) Reaction against MHC
- 25. Secondary antibody responses are better because :
  - (A) They provide defense against unrelated antigens
  - (B) They are stronger and faster
  - (C) The antibody can be made by both T and B cells
  - (D) Complement-fixing antibodies are made

- 26. Which cell type produces antibodies?
  - (A) Macrophages
  - (B) T-lymphocytes
  - (C) NK
  - (D) Plasma cells
- 27. Class switching of B-lymphocyte occurs when they encounter :
  - (A) Cytokines
  - (B) Antigen
  - (C) T-lymphocytes
  - (D) Complement
- 28. The secondary, but not the primary, immune response is based on :
  - (A) Memory
  - (B) The bonus effect of multivalency
  - (C) Complement activation
  - (D) Clonal selection
- 29. Protection against microorganisms inside cells is provided by :
  - (A) T-cells
  - (B) Antibody
  - (C) C3b
  - (D) C1q
- 30. The basic Ig unit is composed of :
  - (A) 2 identical heavy and 2 identical light chains
  - (B) 2 identical heavy and 2 different light chains
  - (C) 2 different heavy and 2 identical light chains
  - (D) 2 different heavy and 2 different light chains

- 31. The complementarity determining regions :
  - (A) Are restricted to light chains
  - (B) Are in the constant part of the Ig molecule
  - (C) Bind to Fc receptors
  - (D) Are concerned in antigen recognition
- 32. Which of the following gene clusters do not contribute to antigen binding :
  - (A) VL
  - (B) CL
  - (C) VH
  - (D) D
- 33. Recombination of V, D and J Ig gene segments :
  - (A) Only occurs in mature B-cells
  - (B) Is effected by recombinase enzymes
  - (C) Only occurs in light chains
  - (D) Involves heptamer-spacer-heptamer flanking sequences
- 34. Which of the following statements does not apply to IgG?
  - (A) Appears early in the primary immune response
  - (B) Neutralizes bacterial toxins
  - (C) Can fix complement
  - (D) Crosses the human placenta
- 35. IgA in seromucus secretions :
  - (A) Has no J-chain
  - (B) Has no secretory piece
  - (C) Is dimeric
  - (D) Cannot bind to neutrophils

- 36. With reference to the variable Ig domain, which of these answers is false :
  - (A) It mediates the secondary consequences of antigen recognition
  - (B) It has anti-parallel beta-pleated sheet structures
  - (C) It uses beta-turn loops to bind antigen
  - (D) It has an extra-long beta-turn relative to constant region domains
- 37. Ig idiotypes are found :
  - (A) In the constant region of the heavy chain
  - (B) In the constant region of the light chain
  - (C) In the hinge region
  - (D) In the variable region of both heavy and light chains
- 38. RAG-1 and RAG-2 enzymes effect the recombination of :
  - (A) VDJ to CH
  - (B) H to L
  - (C) CDR1 to CDR2
  - (D) V to D
- 39. The first immunoglobulin heavy chain class to be expressed on the surface of a newly produced B-cell is :
  - (A) IgM
  - (B) IgD
  - (C) IgE
  - (D) IgG
- 40. The percentage of human peripheral blood T-cells bearing a gamma delta T-cell receptor is :
  - (A) 30-80%
  - (B) 1-5%
  - (C) 100%
  - (D) 0%

- 41. Using only random VDJ recombination, from 40 V, 30 D and 6 J gene segments, the number of possible variable regions of an antigen receptor molecule would be :
  - (A) 40
  - (B) 76
  - (C) 7,200
  - (D)  $1.4 \times 10^{6}$
- 42. The T-cell receptor antigen recognition signal is transduced by :
  - (A) The TCR alpha chain
  - (B) The TCR beta chain
  - (C) CD3
  - (D) CD2
- 43. MHC class II molecules are found on :
  - (A) Virtually all cells in the body
  - (B) B cells, dendritic cells and macrophages
  - (C) Only gamma-interferon activated cells
  - (D) Virtually all nucleated cells in the body
- 44. A hapten is :
  - (A) An epitope
  - (B) A paratope
  - (C) A small chemical grouping which reacts with preformed antibodies
  - (D) A carrier
- 45. The intermolecular forces which contribute to the interaction between antibody and antigen :
  - (A) Are all electrostatic
  - (B) Are all van der Waals
  - (C) Are all hydrophobic
  - (D) Rely on a combination of the above

- 46. Which of the following statements is incorrect? Affinity is :
  - (A) A measure of the strength of the binding of antigen to antibody
  - (B) The association constant of the Ag/Ab equilibrium
  - (C) Avidity
  - (D) Related to the free energy change of the Ag/Ab interaction
- 47. The antigen moiety on an antigen-presenting cell recognized by the alpha beta Tcell receptor is :
  - (A) Native protein antigen plus Major Histocompatibility Complex (MHC) molecule
  - (B) Processed (Peptide) antigen plus MHC
  - (C) Processed peptide antigen
  - (D) Native antigen
- 48. The processing of cytosolic protein involves :
  - (A) Transport into late endosomes
  - (B) Proteasome-mediated cleavage
  - (C) Displacement of invariant chain
  - (D) Displacement of beta2-microglobulin
- 49. Antigen processing for presentation by MHC class II molecules involves :
  - (A) Proteasomal-mediated cleavage
  - (B) LMP2
  - (C) TAP1 and TAP2
  - (D) Calnexin
- 50. Antigen processing for presentation by MHC class II molecules involves :
  - (A) DM
  - (B) LMP2
  - (C) TAP1 and TAP2
  - (D) Calnexin

#### 51. Super antigens :

- (A) Do not cause pathology
- (B) Are not mitogenic for T-cells
- (C) Bind to MHC class III
- (D) Bind to all members of a given V beta T-cell receptor family

### 52. An epitope :

- (A) Is the area on an antigen which contacts antibody
- (B) Is the area on an antibody which contacts antigen
- (C) Requires both antigen-binding arms of the antibody molecule for its recognition
- (D) Is usually composed of a linear sequence of amino acids
- 53. Antibody titer refers to the :
  - (A) Absolute amount of specific antibody
  - (B) Affinity of specific antibody
  - (C) Avidity of specific antibody
  - (D) Highest dilution of antibody still able to give a positive result in a test system
- 54. The affinity of an antibody can be determined by measuring :
  - (A) Its concentration
  - (B) The valency of antigen binding
  - (C) The amount of antibody bound at various antigen concentrations
  - (D) Its ability to neutralize bacterial toxins
- 55. Latex particles are often used in :
  - (A) Agglutination tests
  - (B) Affinity chromatography
  - (C) Affinity measurements
  - (D) Adjuvants

- 56. The RAST measures :
  - (A) Antigen concentration
  - (B) IgE antibodies
  - (C) IgM antibodies
  - (D) Agglutination
- 57. Characterization of antigens by electrophoresis and immunofixation relies on the reaction of antigen and antibody in (or on) :
  - (A) Agar
  - (B) Streptavidin
  - (C) Gold-plated sensor chip
  - (D) Latex particles
- 58. Western blots are primarily used to detect :
  - (A) Protein
  - (B) Carbohydrate
  - (C) Lipid
  - (D) RNA
- 59. SDS-PAGE separates proteins on the basis of :
  - (A) Isoelectric point
  - (B) Sedimentation coefficient
  - (C) Molecular size
  - (D) Degree of glycosylation
- 60. Which of the following is not used as a direct conjugate to the antibody for visualizing tissue antigens :
  - (A) Fluorescein
  - (B) Anti-immunoglobulin
  - (C) Alkaline phosphatase
  - (D) Peroxidase

- 61. In all ELISA you might use an antigen or antibody labeled with :
  - (A) 1251
  - (B) FITC
  - (C) Colloidal gold
  - (D) Horseradish peroxidase
- 62. PAMP stand for :
  - (A) Pattern Associated Molecular Pathogen
  - (B) Pathogen Assisted Molecules & Proteins
  - (C) Pathogen Associated Molecular Patterns
  - (D) All of these
- 63. Antigen-specific B-cells can be purified by :
  - (A) Sedimentation rate
  - (B) Panning on anti-Ig plates
  - (C) Binding of fluorescent antigen and separation in the FACS
  - (D) Radioimmuno assay
- 64. Which one of the following is a primary lymphoid organ :
  - (A) Thymus
  - (B) Spleen
  - (C) Peyer's patch
  - (D) Tonsil
- 65. The germinal center is an important site of :
  - (A) Hematopoiesis
  - (B) B-cell maturation
  - (C) T-cell maturation
  - (D) Myeloid cell differentiation

66. Lymphocytes in the lamina propria secrete large amounts of :

- (A) IgD
- (B) IgA
- (C) Gamma delta TCR
- (D) Bence Jones protein
- 67. CD8 is a marker of :
  - (A) B-cells
  - (B) Helper T-cells
  - (C) Cytotoxic T-cells
  - (D) An activated macrophage
- 68. CD4 :
  - (A) Is essentially an intracellular glycoprotein
  - (B) Is heterodimeric
  - (C) Binds processed peptide in its outer groove
  - (D) Binds to MHC class II on antigen-presenting cells
- 69. The following is characteristic of B- but not T-cells :
  - (A) Class I MHC
  - (B) Surface immunoglobulin
  - (C) Measles virus receptor
  - (D) Polyclonal activation by concanavalin
- 70. The T-cell ligand binding B7 on a professional antigen-presenting cell is :
  - (A) CD28
  - (B) CD2
  - (C) LFA-1
  - (D) ICAM-1

- 71. The early increase in phospholipase C gamma 1 activity following T-cell stimulation :
  - (A) Represents a sensitive regulatory negative feedback control mechanism
  - (B) Dephosphorylates protein tyrosine kinase inhibitors
  - (C) Accelerates hydrolysis of diacylglycerol
  - (D) Accelerates hydrolysis of phosphatidylinositol diphosphate
- 72. Lipopolysaccharide (LPS) from Gram-negative bacteria is :
  - (A) Thymus-dependent antigen
  - (B) A type 2 thymus-independent antigen
  - (C) A polyclonal activator of murine B-cells
  - (D) Cross-links Ig receptors on B-cells
- 73. B-cells as distinct from T-cells :
  - (A) Are polyclonally activated by phytohemagglutinin
  - (B) Bear surface Ig receptors for antigen
  - (C) Bear surface CD3 molecules
  - (D) Are lymphocytes
- 74. Which one of the following events occurs earliest in T-cell signaling :
  - (A) Activation of phospholipase C
  - (B) Activation of protein kinase C
  - (C) Production of inositol triphosphate
  - (D) Activation of protein tyrosine kinase
- 75. Prior to class switching, B-cells express :
  - (A) IgA alone
  - (B) IgA and IgG
  - (C) IgM and IgD
  - (D) IgD alone

- 76. A major factor regulating the adaptive immune response is :
  - (A) The neutrophil
  - (B) Complement membrane attack complex
  - (C) C-reactive protein
  - (D) Antigen concentration
- 77. Injection of a mouse with a very high dose of sheep erythrocytes induces :
  - (A) A generalized antigen non-specific suppression
  - (B) Antigen-specific T-suppression
  - (C) Class switching to IgM antibody production
  - (D) IFN-gamma production by Th2 cells
- 78. Cells bearing MHC class I plus peptide are targets for specific :
  - (A) B-cells
  - (B) Cytotoxic T-cells
  - (C) Th1 cells
  - (D) Th2 cells
- 79. Immune responses are :
  - (A) Depressed by stress
  - (B) Stimulated by glucocorticoids
  - (C) Depressed by estrogens
  - (D) Stimulated by androgens
- 80. Which of the following is the earliest site of hematopoiesis in the embryo :
  - (A) Bone marrow
  - (B) Liver
  - (C) Spleen
  - (D) Yolk sac

- 81. Hassall's corpuscles are found in :
  - (A) Peripheral blood
  - (B) Bone marrow
  - (C) Spleen
  - (D) Thymus
- 82. In the thymic medulla the majority of gamma delta T-cells are :
  - (A) CD4+CD8+
  - (B) CD4+CD8-
  - (C) CD4-CD8+
  - (D) CD4-CD8-
- 83. The phenomenon whereby, following successful Ig gene rearrangement, further rearrangement on the sister chromatid is suppressed is called :
  - (A) Allelic exclusion
  - (B) Class switching
  - (C) Productive rearrangement
  - (D) Clonal selection
- 84. Which immunoglobulin class crosses the placenta to provide a high level of passive immunity at birth?
  - (A) IgA
  - (B) IgD
  - (C) IgE
  - (D) IgG
- 85. The largest number of deaths from infectious diseases are caused by :
  - (A) AIDS
  - (B) Acute respiratory infections
  - (C) Diarrheal diseases
  - (D) Tuberculosis

- 86. Extracellular bacteria are optimally killed by :
  - (A) Macrophages plus antibody plus complement
  - (B) Complement
  - (C) Antibody
  - (D) Macrophages plus complement
- 87. Secretory IgA protects external mucosal surfaces by :
  - (A) Triggering mast cells
  - (B) Recruiting phagocytic cells
  - (C) Preventing microbial adherence to the mucosa
  - (D) Binding to epithelial cells
- 88. Defects in neutrophil NADPH oxidase system produce :
  - (A) Chronic granulomatous disease
  - (B) Chediak-Higashi disease
  - (C) Leukocyte adhesion deficiency
  - (D) Hashimoto's disease
- 89. Di George syndrome results from defect in :
  - (A) Purine nucleoside phosphorylase
  - (B) WASP
  - (C) Thymic development
  - (D) DNA repair
- 90. Which one of the following mast cell products is not preformed and therefore has to be newly synthesized?
  - (A) Histamine
  - (B) Prostaglandin D2
  - (C) Heparin
  - (D) Neutral protease

- 91. Anaphylaxis can be triggered by cross-linking of IgE receptors on :
  - (A) Monocytes
  - (B) Mast cells
  - (C) B-cells
  - (D) Eosinophils
- 92. A graft between members of the same species is termed an :
  - (A) Autograft
  - (B) Isograft
  - (C) Xenograft
  - (D) Allograft
- 93. Which of the following is a non-organ specific (systemic) autoimmune disease :
  - (A) Myasthenia gravis
  - (B) Systemic lupus erythematosus (SLE)
  - (C) Hashimoto's thyroiditis
  - (D) Pernicious anemia
- 94. Pernicious anemia can be treated with :
  - (A) Thyroxine
  - (B) Insulin
  - (C) Vitamin B12
  - (D) Thymectomy
- 95. Ankylosing spondylitis is strongly associated with HLA :
  - (A) B27
  - (B) DR3
  - (C) DR4
  - (D) B2

- 96. Pattern Recognition Receptors (PRR) include :
  - (A) LPS
  - (B) PAMPs
  - (C) Lipoteichoic acid
  - (D) Lectin-like molecules
- 97. Auto-immunity develops due to :
  - (A) Loss of T cells
  - (B) Loss of plasma cells
  - (C) Loss of complement
  - (D) Loss of immunological tolerance
- 98. Artificially acquired passive immunity refers to immunity from :
  - (A) Transfer of antibodies from mother to foetus across the placenta
  - (B) Recognition of an antigen by B cells
  - (C) Injection of the antigen in a vaccination
  - (D) Recognition of an antigen by T cells
- 99. Which of the following is not involved in first line defence?
  - (A) Mucus membranes
  - (B) Saliva
  - (C) Tears
  - (D) Antibodies
- 100. The classical and alternative pathways meet at complement component :
  - (A) C4
  - (B) C4b
  - (C) Factor D
  - (D) C3

Rough Work / रफ कार्य

## **DO NOT OPEN THE QUESTION BOOKLET UNTIL ASKED TO DO SO**

- Examinee should enter his / her roll number, subject and Question Booklet Series correctly in the O.M.R. sheet, the examinee will be responsible for the error he / she has made.
- 2. This Question Booklet contains 100 questions, out of which only 75 Question are to be Answered by the examinee. Every question has 4 options and only one of them is correct. The answer which seems correct to you, darken that option number in your Answer Booklet <u>(O.M.R ANSWER SHEET)</u> completely with black or blue ball point pen. If any examinee will mark more than one answer of a particular question, then the first most option will be considered valid.
- 3. Every question has same marks. Every question you attempt correctly, marks will be given according to that.
- Every answer should be marked only on Answer Booklet <u>(O.M.R</u> <u>ANSWER SHEET</u>). Answer marked anywhere else other than the determined place will not be considered valid.
- 5. Please read all the instructions carefully before attempting anything on Answer Booklet(O.M.R ANSWER SHEET).
- After completion of examination please hand over the Answer Booklet (O.M.R ANSWER SHEET) to the Examiner before leaving the examination room.
- 7. There is no negative marking.
- **Note:** On opening the question booklet, first check that all the pages of the question booklet are printed properly in case there is an issue please ask the examiner to change the booklet of same series and get another one.