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प्रश्नपुस्तिका क्रमांक
Question Booklet No.

O.M.R. Serial No. | | | | | | | | |

प्रश्नपुस्तिका सीरीज
Question Booklet Series
A

M.Sc (Biotechnology) First Semester, Examination, February/March-2022
MBT-1001
Cell and Development Biology

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।**
3. 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।
6. 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।**

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1. Embryonic stem cells are derived from:

   (A) Undifferentiated inner cell mass of embryo

   (B) Differentiated inner cell mass

   (C) Undifferentiated trophoblast cell

   (D) Differentiated trophoblast cell

2. Nuclear determinants are also called:

   (A) Inducers

   (B) Organisers

   (C) Morphogens

   (D) Maternal genes

3. Which of the maternal effect genes regulate anterior axis development?

   (A) Bicoid

   (B) Nanos

   (C) Caudal

   (D) Hunchback

4. Maternal effect gene:

   (A) Exclusively contributed by mother

   (B) Defines polarity of egg

   (C) Mutations in such genes are lethal

   (D) All of the above true

5. The only cells that give rise to complete organism:

   (A) Pluripotent

   (B) Multipotent

   (C) Totipotent

   (D) Corticopotent

6. Many cells in the body divide only rarely, if at all; neurons, red blood cells, and keratinocytes are extreme examples. In which portion of the cell cycle would such cells be considered to be?

(A) M phase

(B) Gphase

(C) G0 phase

(D) S phase

7. Metamorphosis of amphibians is triggered by environmental cues that act on the:

(A) Thyroid

(B) Pituitary

(C) Hypothalamus

(D) Eye

8. In which of the following type of cells the Gap junctions are absent?

(A) Sperm cells

(B) Brain cells

(C) Reproductive cells

(D) Cardiac cells

9. Which of the following cell organelle is responsible for transporting, modifying, and packaging proteins and lipids?

(A) Mitochondria

(B) Endoplasmic Reticulum

(C) Golgi Complex

(D) DNA

10. Which of the following cells are pluripotent?

(A) Embryonic stem cells

(B) Nucleosomes

(C) Hepatocytes

(D) Neurons

11. Chaperon proteins help in:

(A) Protein folding and assembly only

(B) Protein folding only

(C) Protein stability

(D) Both (A) and (B)

12. Which of the following matches a phase of cell division?

(A) S immediately precedes cell division

(B) G2, cell division

(C) M1, duplication of DNA

(D) G1 immediately follows cell division

13. More appropriate alternative to connexin protein is:

(A) Desmosomes

(B) Intracellular spaces

(C) Tight junction

(D) Gap junctions

14. In which type of signaling, the cell that expresses messenger molecules also produces receptors?

(A) Autocrine

(B) Heterocrine

(C) Paracrine

(D) Endocrine

15. NO signaling requires:

(A) Cell surface receptors

(B) Nuclear receptors

(C) Orphan receptors

(D) No receptor

16. The ligands for receptors may be:

(A) Only hydrophilic

(B) Only hydrophobic

(C) Either of two

(D) Hydrophilic, hydrophobic and gaseous

17. Which of the following signaling is involved in Paracrine signaling?

(A) Chemical signaling

(B) Synaptic transmission

(C) Hormonal Communication

(D) Autostimulation of cell

18. Which of the following signal molecules is not used for extracellular signaling?

(A) Autocrine

(B) Endocrine

(C) Cyclic AMP

(D) None of the above

19. Which of the following signal molecules does not interact with cell surface receptors?

(A) Insulin

(B) Gastrin

(C) Glucagon

(D) Testosterone

20. Tumor-suppressor genes includes p53 and Rb. How would a "gain-of-function" mutation likely affect the cell?

(A) The cell would divide constantly because of the loss of cell cycle repression

(B) The cell would divide much less frequently because of the extra cell cycle repression

(C) The cell would divide normally because these genes have no effect on cell cycle control

(D) The cell would commit suicide by apoptosis

21. Which property of p53 enables it to prevent the development of cancer?

(A) p53 is a transcription factor that causes production of proteins that stimulate the cell cycle

(B) p53 prevents the replication of cells with damaged DNA

(C) p53 prevents cells from triggering apoptosis

(D) p53 stimulates synthesis of DNA repair enzymes that replace telomere sequence lost during cell division

22. Cancer is often the result of activation of ____to____ and the inactivation of ____ genes.

(A) Oncogenes, tumor-suppressor genes, proto-oncogenes

(B) Proto-oncogenes, oncogenes, tumor-suppressor genes

(C) Oncogenes, proto-oncogenes, tumor-suppressor genes

(D) Proto-suppressor genes, suppressors, oncogenes

23. Rate of diffusion of a substance depends on:

(A) Presence of semi-permeable membrane

(B) Concentration gradient of solute

(C) Concentration of solvent

(D) Concentration of ions

24. In Osmosis, movement of_____ occurs through the semi-permeablemembrane.

(A) Solvent

(B) Solute

(C) Both (A) and (B)

(D) All the above

25. Which among the following is incorrect about fluid mosaic model?

(A) Plasma membrane was coined by Singer and Nicholson to be a fluid mosaic model

(B) According to this model, the proteins are dispersed randomly on the surface and the interior of the plasma membrane

(C) The word fluid in this model refers to the fluid flexible nature of the plasma membrane

(D) The model fails to explain the cell growth and cell division

26. Enzyme linked receptors are:

(A) Multi-pass proteins

(B) single-pass proteins

(C) multi-pass lipids

(D) Single-pass lipids

27. Posttranslational modification of many eukaryotic proteins begins in the _____.

(A) Endoplasmic reticulum

(B) Mitochondria

(C) Chloroplasts

(D) Nucleus

28. Which among the following is not a part of endomembrane system?

(A) Endoplasmic reticulum

(B) Mitochondria

(C) Vacuoles

(D) Golgi apparatus

29. Which of the following receptor - ligand pathway is correct?

(A) Insulin - G protein receptor

(B) Mineralocorticoid - tyrosine kinase receptor

(C) Vitamin D - intracellular receptor

(D) Adrenaline - ligand gated channel receptor

30. The extrinsic apoptotic pathway is activated by:

(A) Mitochondria permeabilisation

(B) Activation of Bcl 2 proteins

(C) Oxidative stress

(D) Death ligand

31. On the active ribosome, the polypeptide chain is synthesized:

a. From C termionus to N terminus

b. From N terminus to C-terminus

c. In variable direction depending on protein

d. From 5’ end to 3’end

(A) b and c

(B) a and c

(C) b only

(D) a only

32. Which of the following G-protein takes part in the regulation of vision?

(A) G_{olf}

(B) G_i family

(C) G_s family

(D) G_q family

33. Which of the following messenger molecules are derived from arachidonic acid?

(A) Steroids

(B) Corticoids

(C) Terpenoids

(D) Eicosanoids

34. How many transmembrane alpha-helices are present in the G-protein coupled receptors?

(A) Two

(B) Four

(C) Five

(D) Seven

35. Which of the following statements is not true about G proteins?

(A) G proteins are involved in signal cascades

(B) G proteins become activated when bound to GDP

(C) Guanine nucleotides regulate G proteins

(D) None of the above

36. In higher plants, the red/far-red sensory photoreceptor, phytochrome, is a light-regulated kinase. Which of the following classes of kinases does it represent?

(A) Two-component sensor regulator (histidine kinase)

(B) Two-component sensor regulator (serine/threonine kinase)

(C) Leucine rich repeat (LRR) receptor kinase

(D) Calcium-dependent protein kinase

37. The larval epidermis is produced by:

(A) Clear cytoplasm

(B) Yellow cytoplasm

(C) Gray vegetal cytoplasm

(D) Brown cytoplasm

38. Phenomena that some cells evoke a specific developmental response in other cells is:

(A) Embryonic influence

(B) Embryonic induction

(C) Embryonic stimulation

(D) Embryonic dominance

39. Genes control development by:

(A) Controlling where and when proteins are synthesized

(B) Containing small preformed body parts and organs that become "expressed" during development

(C) Directly controlling phenotypes, without intermediates or influence from theenvironment

(D) Acting as enzymes to build proteins

40. Which is not an example of transmembrane transport between different subcellular compartments?

(A) Transport from the stroma into thylakoid space

(B) Transport from the cytoplasm into the lumen of the endoplasmic reticulum

(C) Transport from the endoplasmic reticulum into the Golgi complex

(D) Transport from mitochondrial intermembrane space into the mitochondrial matrix

41. The COP proteins transport proteins:
    (A) Intracellularly
    (B) Extracellularly
    (C) Intra- as well as extra-cellularly
    (D) Are not involved in transportation
42. The oxygen and carbon dioxide crosses the plasma membrane by the process of:
    (A) Active diffusion
    (B) Facilitated diffusion
    (C) Passive diffusion
    (D) Random diffusion
43. ln which of the following organisms sex determination occurs under the effect of environmental factors?
    (A) Chrysemyspicta
    (B) Homo sapiens
    (C) Drosophila melanogaster
    (D) Pavocristatus
44. If a boy has sexual characters of that of a girl, its genotype would be:
    (A) XYY
    (B) XO
    (C) XXY
    (D) XXX
45. Mesoderm gives rise to all the structures except _____.
    (A) Gonads
    (B) Circulatory system
    (C) Nervous system
    (D) Muscular system
46. Which of the following events is likely to take place, if the nuclei from an 8-celled stage of an embryo are transplanted into enucleated eggs?
    (A) Recipient egg dies
    (B) Donor nuclei die in the new environment
    (C) Cleavage occurs but is arrested after some time
    (D) Formation of the viable embryo in the recipient eggs

47. The activation of zygotic hunchback expression by Bicoid protein illustrates what principle in the establishment of positional information in embryos?
(A) The mother can influence development through the packaging of materials into the egg
(B) A gradient of a protein can activate a gene in a discrete region of an embryo through a threshold effect
(C) The identity of segments in the embryo is a reflection of their position in the embryo
(D) A cascade of gene activations occurs in the syncitialblastoderm

48. During gastrulation in Xenopus, the blastocoel:
(A) Becomes the gut
(B) Is filled with endodermal cells and disappears
(C) Is filled with mesoderm and disappears
(D) Is displaced, and its original location becomes an endoderm lined cavity, the archenteron, which is a precursor to the gut

49. When prospective neuroectoderm from an early amphibian gastrula is transplanted in the prospective epidermal region of a recipient (early gastrula)embryo, the donor tissue will give rise to?
(A) Neural Tube
(B) Epidermis
(C) Neural tube and notochord
(D) Neural tube and epidermis

50. Serpentine receptors are:
a. Ion channels
b. Act in the nucleus
c. Have single transmembrane domain
d. Are lacated on the plasma membrane
find out the correct one:
(A) c and d
(B) Only c
(C) Only d
(D) a and d

51. The adherens junction is:

(A) Occluding

(B) Anchoring

(C) Communicating

(D) None of these

52. Which of the following signal molecule is NOT used for extracellular signaling?

(A) Autocrine

(B) Endocrine

(C) Paracrine

(D) Cyclic AMP

53. Arrange the following sequence of extracellular signaling in the correct order:

1) Transport of signal to a target

2) Start of signal transduction pathways

3) Signaling cell synthesize and release signaling molecules

4) Binding of the signal to the specific receptor

(A) 2, 3, 4, 1

(B) 3, 1, 4, 2

(C) 1, 2, 3, 4

(D) 1, 3, 4, 2

54. Self-phosphorylation is an excellent mechanism for triggering specific catalytic function of the proteins involved in signal cascades because it:

(A) Changes the shape and thus the enzymatic activity of the proteins involved

(B) Makes the receptor more likely to capture the signaling, molecule

(C) Allows hydrophilic signaling molecules to cross the plasma membrane

(D) None of the above

55. Passage of a cell through stages of cell cycle is controlled by a protein kinase that phosphorylates many different proteins at appropriate times:

(A) Cdk activating kinase

(B) Cyclin-dependent kinase

(C) Cyclins

(D) Tyrosine kinase

56. The Protein-tyrosine kinases phosphorylate the _____ residues.

(A) Adenine

(B) Cytosine

(C) Tyrosine

(D) Chymosin

57. What is true about mutagenesis?

(A) Mutagenesis consistently predicts carcinogenesis

(B) Mutagenesis includes initiation, promotion and progression

(C) Mutagenesis occurs more often in germ cells than in somatic cells

(D) Mutagenesis can result from oxidative stress

58. Which of the following best defines an oncogene?

(A) An oncogene codes for a cell cycle control protein

(B) An oncogene codes for a mutated form of a protein that forms part of a signal transduction pathway

(C) An oncogene codes for a protein that prevents the cell from undergoing apoptosis

(D) An oncogene is a dominantly expressed mutated gene that gives a cell a growth or survival advantage

59. Many cancers create a mutation of ras. What is ras?

(A) A tumor suppressor gene

(B) A growth promoting gene

(C) An intracellular signaling protein that regulates cell growth

(D) A cell surface receptor that allows signaling to the nucleus about cell growth

60. The membrane structure is:

(A) Bilayer model

(B) Sandwich model

(C) Fluid mosaic model

(D) Unit membrane model

61. The fluidity of the plasma membrane increases with:

(A) Increase in unsaturated fatty acids in the membrane

(B) Increase in saturated fatty acids in the membrane

(C) Increase in glycolipid content in the membrane

(D) Increase in phospholipid content in the membrane

62. The process by which developing cells achieve their functional, mature identity asliver, or muscle, or nerve is called:

(A) Cleavage division

(B) Pattern formation

(C) Morphogenesis

(D) Differentiation

63. The ability of the cell or tissue to respond to a specific induction signal is known as

(A) Competence

(B) Equivalence group

(C) Receptor

(D) Potency

64. Morphogenesis is concerned with:

(A) Shape of tissue organ and entire organisms

(B) Cell growth

(C) Cell differentiation

(D) All of the above

65. In cell fractionation various components of cells including its organelles can be isolated in different layers depending upon_____.

(A) Their physical properties like size & weight

(B) Physical properties of the medium like its density

(C) Their electrical properties like their charges

(D) Both (A) and (B)

66. What is a stem cell?

(A) A cell only found in the stem of plants

(B) An unspecialised cell with the ability to create specialised cells

(C) A specialised cell who can only generate cells of the same type

(D) A tissue giving rise to skin

67. Neural stem cells from the brain can differentiate into which types of cell:

(A) Only specialized brain cells

(B) Specialized brain cells and specialized skin cells

(C) All types of specialized cells

(D) Only specialized blood cells

68. What are the roles of stem cells in our bodies?

(A) We are not sure what roles stem cells play in the body

(B) They produce new specialized cells to replace cells that die or are used up

(C) They fight against infections

(D) They perform specialized roles in the body (e.g. produce insulin, transmit signals in the nervous system, ...)

69. Which of the following are not myeloid cells?

(A) Macrophages

(B) Monocytes

(C) Neutrophils

(D) T cells

70. Focal adhesions help in:

(A) Transportation

(B) Adherence

(C) Recognition

(D) Cell movement

71. Which of the following is the ideal molecular marker of a mature lysosome?

(A) Glucose 6 p receptor

(B) SRP

(C) Mannose 6 p receptor

(D) Mannose receptor

72. In Drosophila, the sex is determined by:

(A) The ratio of number of X-chromosomes to the sets of autosomes

(B) X and Y chromosomes

(C) The ratio of pairs of X-chromosomes to the pairs of autosomes

(D) Whether the egg is fertilized or develops parthenogenetically

73. Which one is true for Nitric oxide signaling?

(A) Vascular endothelial cell- Arg + O2 = NO + citruline

(B) Vascular endothelial cell- Asn + O2 = NO + citruline

(C) Smooth muscle- Arg + O2 = NO + citruline

(D) Smooth muscle- Asn + O2 = NO + citruline

74. Which cells are responsible for the nourishment of spermatids while they mature to produce sperms?

(A) Spermatogonia

(B) Mother cells

(C) Sertoli cells

(D) Leydig cells

75. Which one of the following is initiated by the secretion of trophoblast?

(A) Blastulation

(B) Gastrulation

(C) Implantation

(D) Cleavage

76. The chromosomal basis of sex determination was discovered in:

(A) Melandrium

(B) Rumex

(C) Sphaerocarpus

(D) Coccinea

77. What is the process of release of sperms from Sertoli cells called?

(A) Spermiation

(B) Spermatogenesis

(C) Spermiogenesis

(D) Meiosis

78. If calcium is injected into an unfertilized sea urchin egg, what would happen?

(A) Capacitation would occur

(B) A slow block to polyspermy would be induced

(C) The egg will become fertilized without sperm.

(D) The egg will become female

79. Polyspermy is normally prevented by:

(A) The fertilizing and anti-fertilizing reaction

(B) Repulsion of the excess number of sperm by ova

(C) The inability of some sperm to penetrate ova

(D) Formation of the fertilization membrane

80. Crossing over occurs at:

(A) Pachytene

(B) Leptotene

(C) Zygotene

(D) Diplotene.

81. Which of the following is NOT the example of proto-oncogenes?

(A) Rb

(B) Src

(C) Myc

(D) Abl

82. Which of the following is the characteristic of a cancer cell?

(A) Density dependent inhibition

(B) Contact inhibition

(C) Loss of anchorage dependence

(D) Apoptosis

83. Name the genes which directly inhibit cell growth or promote cell death:

(A) Gatekeeper genes

(B) Caretaker genes

(C) Checkpoints

(D) Transcription factors

84. Chromatids separate at:

(A) Prophase

(B) Metaphase

(C) Telophase

(D) Anaphase

85. Proto-oncogenes can be transformed to oncogenes by all of the following mechanisms except _____.

(A) Elimination of their start signals for translation

(B) During a viral infection cycle

(C) Chromosomal rearrangements

(D) Chemically induced mutagenesis

86. Which of the following could be coded by a tumor-supressor gene?

(A) A protein that helps prevent progression through cell cycle

(B) A protein that helps prevent apoptosis

(C) A protein that codes for a DNA repair enzyme

(D) A protein that forms part of a growth factor signaling pathway

87. Which property of p53 enables it to prevent the development of cancer?

(A) It is a transcription factor that causes protein production which stimulates the cell cycle

(B) It prevents replication of cells with damaged DNA

(C) It prevents cells from triggering apoptosis

(D) It stimulates synthesis of DNA repair enzymes that replace telomere sequence lost during cell division

88. Migration of cancerous cells from the site of origin to other part of the body forming secondary tumors is called _____.

(A) Diapedesis

(B) Metastasis

(C) Proliferation

(D) Apoptosis

89. Cyclin dependent kinases which control progression through cell cycle checkpoints are totally activated by which of the following?

(A) Binding to cyclin, plus phosphorylation by a Cdk activating protein kinase

(B) Binding to cyclins

(C) Phosphorylation by Cdk activating protein kinase

(D) Phosphorylation by a tyrosine kinase

90. At the end of each phase of cell cycle cyclins activating Cdks in that phase are inactivated irreversibly by _____.

(A) Multiple phosphorylations

(B) De-phosphorylation

(C) Ubiquitinylation

(D) Destabilizing by proteolysis in a proteosome

91. cAMP and cGMP are derived from:

(A) ATP and GTP by the actions of adenylate cyclase and guanylate cyclase respectively

(B) GTP and ATP by the actions of adenylate cyclase and guanylate cyclase respectively

(C) ATP and GTP by the actions of guanylate cyclase and adenylate cyclase respectively

(D) None of the above

92. Which among the following is incorrect about the layers of the cell wall?

(A) The cell wall is made of three main layers, namely, primary cell wall, secondary cell wall and middle lamella

(B) Cell wall of a young plant is made of primary cell which composes a loose network of cellulose microfibrils

(C) Secondary cell wall forms as the cell matures and composes cellulose and lignin

(D) Middle lamella separates cells and is composed of sodium acetate

93. Which of the following is a second messenger?

(A) Inositol 1,4,5-triphosphate

(B) Diacyl glycerol

(C) Phospholipase C

(D) Both (A) and (B)

94. Which of these processes is not a part of the cell cycle?

(A) Duplication of genome

(B) Division into daughter cells

(C) Synthesis of cell organelles

(D) Degeneration of centrosome

95. Which of these processes involve meiosis?

(A) Atherogenesis

(B) Organogenesis

(C) Gametogenesis

(D) Embryogenesis

96. Arrange the phases of prophase I in order:

(A) Leptotene, Zygotene, Pachytene, Diplotene

(B) Zygotene, Leptotene, Pachytene, Diplotene

(C) Leptotene, Pachytene, Zygotene, Diplotene

(D) Zygotene, Leptotene, Diplotene, Pachytene

97. What layer of egg cell prevents entry of other sperms?

(A) Corpus luteum

(B) Zona pellucida

(C) Endometrium

(D) Corona radiata

98. What triggers the completion of meiosis of secondary oocyte?

(A) Maturation of Graafian follicle

(B) Entry of sperm into the egg cell

(C) Release of estrogen

(D) Coitus

99. Which of the following is the correct set of ploidy and cell type?

(A) Primary oocyte: Diploid; Secondary oocyte: Haploid; Ovum: Haploid

(B) Primary oocyte: Haploid; Secondary oocyte: Haploid; Ovum: Haploid

(C) Oogonium: Diploid; Primary oocyte: Diploid; Secondary oocyte: Diploid

(D) Oogonium: Diploid; Primary oocyte: Haploid; Secondary oocyte: Haploid

100. What are the cells that primary oocyte divides into called?

(A) Secondary oocyte and first polar body

(B) Secondary oocyte and second polar body

(C) First polar body and second polar body

(D) Ovum and second polar body

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Rough Work / रफ कार्य

Rough Work / रफ कार्य

DO NOT OPEN THE QUESTION BOOKLET UNTIL ASKED TO DO SO

1. 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 (O.M.R ANSWER SHEET) 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.
4. Every answer should be marked only on Answer Booklet **(O.M.R ANSWER SHEET).**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).**
6. 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.