Test Booklet Code & No. प्रश्नपत्रिका कोड व क्र.

Paper-III LIFE SCIENCE

Sign	nature and Name of Invigilator	Seat No.		
1. (Signature)		(In figures as in Admit Card)		
(N	Name)	Seat No.		
2. (8	ignature)	(In words)		
(N	Vame)	OMR Sheet No.		
M	AY - 34316	(To be filled by the Candidate)		
Tim	ne Allowed : 2½ Hours]	[Maximum Marks: 150		
Nur	nber of Pages in this Booklet : 20	Number of Questions in this Booklet: 75		
1 2 4	Instructions for the Candidates Write your Seat No. and OMR Sheet No. in the space provided on the top of this page. This pager consists of 75 objective type questions. Earl question will carry two marks. All questions of Paper-III will be compulsory, covering entire syllabus (including all electives, without options). At the commencement of examination, the question booklet will be given to the stodent. In the first 5 minutes, you are requested to open the booklet and compulsorily examine it as follows: (ii) To have necess to the Question Booklet, tear off the paper seal on the edge of this cover page. Do not accept a booklet without sticker-seal or open booklet. (iii) Tally the number of pages and number of questions in the booklet with the information printed on the cover page. Faulty booklets due to missing pages' questions or questions repeated or not in serial order or any other discrepancy should not be accepted and correct booklet should be obtained from the invigilator within the period of 5 minutes. Afterwards, neither the Question Booklet will be replaced nor any extra time will be given. The same may please be noted. (iii) After this verification is over, the OMR Sheet Number should be entered on this Test Booklet. Each question has four alternative responses marked (A), (B), (C) and (D). You have to darken the circle as indicated below on the correct response against each them. Example: where (C) is the correct response.	परिशार्थी नी आपला आसन क्रमांक वा पृष्ठावरील वरच्य कीप-वात लिश्चवाः तसेच आपणास दिलेल्या उत्तरपांककेचा क्रमांक त्याखालो लिश्चवाः तसेच आपणास दिलेल्या उत्तरपांककेचा क्रमांक त्याखालो लिश्चवाः तसेच आपणास दिलेल्या उत्तरपांककेचा क्रमांक त्याखालो लिश्चवाः तस्तर प्रश्नपांककेच 75 बहुपपांची प्रश्न आहेठः प्रत्येक प्रश्नास द्वीच गृण आहेठः य प्रश्नाकेचील सर्व प्रश्ना मीडिवां अतिवार्य आहे. सदरचे प्रश्न हे च विषयाच्या संपृणे अभ्यासक्रमावर अधारित आहेठः ग्रिश्चा सुरु झल्यावर विद्याखांला प्रश्नपांत्रका दिली जहेलः सुरुवातीच्या 5 मिनीटांमध्ये आपण सदर प्रश्नपांत्रका उपदृण खालील वार्यो अवश्य तपास्न प्रश्नातः (i) प्रश्नपांत्रका उपदृण्यामाठी प्रश्नपांत्रकार लायलेले ग्रील उपदार्थः सील नमलेली किंवा सील उपदृलेली प्रश्नपांत्रकची एक्जण पृष्ठे तसेच प्रश्नपांत्रकोलील एक्जण प्रश्नाची संख्या प्रश्नाचीच च्याची पृष्ठे कभी असलेली किंवा हतर बुटी असलेली/प्रश्नाचा चुकीचा क्रम असलेली किंवा हतर बुटी असलेली/प्रश्नाचा चुकीचा क्रम असलेली किंवा हतर बुटी असलेली। सदीच प्रश्नपांत्रका स्ववातीच्या 5 मिनिटानच पर्यवेसकाला परत देवन दूसरी प्रश्नपांत्रका मुख्याली किंवा हतर बुटी असलेली। सदीच प्रश्नपांत्रका स्ववातीच्या 5 मिनिटानच पर्यवेसकाला परत देवन दूसरी प्रश्नपांत्रका मागव्न प्रशान पर्विक काला परत देवन दूसरी प्रश्नपांत्रको मागव्न प्रशान पर्विक वार्यो कृष्या विद्याख्यांनी चींद च्याची. (iii) वरीलप्रमाणी सर्व पहलाळ्य एक्जण पर्वेहल्यानंतरच प्रश्नपांत्रकेवर औ.एम.आर. उत्तरपांत्रकच नवर लिहांच। प्रतेक प्रश्नपांत्रकेच प्रशाम काला स्वाली दर्शिकत्याप्रमाणे ठळकपणे काळानिक क्रमचा. इद्य : वर (C) हे भोग्य उत्तर असले तर.		
5.	Your responses to the items are to be indicated in the OMR Shoet given inside the Booklet only. If you mark at any place other than in the circle in the OMR Shoet, it will not be evaluated.			
6. 7.	Read instructions given inside carefully. Rough Work is to be done at the end of this booklet.	इतर किळाणी सिडीसेस्वी उनरे तपाससी जोणर नाडीत.		
8.	If you write your Name, Scat Number, Phone Number or put	 आत दिलेल्या मृचना काळजीपूर्वक बाचाव्यात. 		
9.	any mark on any part of the OMR Sheet, except for the space allotted for the relevant entries, which may disclose your identity, or use abusive language or employ any other unfair means, you will render yourself liable to disqualification. You have to return original OMR Sheet to the invigilator at the end of the examination compulsorily and must not carry it with you outside the Examination Hall. You are, however, allowed to carry the Test Booklet and duplicate copy of OMR Sheet on	 प्रश्नपत्रिकंच्य शेवटी जोडलेल्या की-या पानावरच कच्चे काम करावे. वर आपण ओ.एम.आर. वर नमृद केलेल्या तिकाणा व्यक्तिमेत इतर कोठरी नाव, आसन क्रमांक, फोन नंबर किया ओळ्या पटेल अमी कोणतीडी खूप केलेली आइट्स आल्पास अथ्या अयस्थ पापेच वापर किया इतर पैरमाणीच अवलंब केल्याम जिद्याख्यांना परीक्ष्म अपात उर्धावन्यान पेईल. परीक्षा संपर्णानंतर विद्याख्यांन मृद्ध ओ.एम.आर. उत्तरपत्रिका परीक्ष्म संपर्णानंतर विद्याख्यांन मृद्ध ओ.एम.आर. उत्तरपत्रिका परीक्ष्म संपर्णानंतर विद्याख्यांन प्रश्नात्रिका व ओ.एम.आर. उत्तरपत्रिकंची दित्रीय पत्र अवल्याख्यांचर नेजवाम विद्याख्यांना प्रशाननी आहे. 		
V.	conclusion of examination.	ाद्वताय प्रत आपल्याकराकर गण्यास विद्याच्याना परवानमा आह. 10. फाना निळ्या किया काळ्या बॉल पेनबाच वापर करावा.		
10. 11.	Use only Blue/Black Ball point pen. Use of any calculator or log table, etc., is prohibited.	 कॅलक्वलेटर किंवा लॉग टेक्ल वापरप्रधास परवानगी गांधे. 		
12.	There is no negative marking for incorrect answers.	 चुकीच्या उत्तरासाठी गुण कपात केली जाणार नाही, 		

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Paper III

Time Allowed: 2½ Hours] [Maximum Marks: 150

Note: This paper contains Seventy Five (75) multiple choice questions. Each question carries Two (2) marks. Attempt All questions.

- The biosystematic category comparium is equivalent to
 of conventional taxonomy.
 - (A) Subspecies
 - (B) Species
 - (C) Genus
 - (D) Family
- 2. Haplo-diploid life-cycle occurs in :
 - (A) Bacillariophyta
 - (B) Euglenophyta
 - (C) Rhodophyta
 - (D) Cyanophyta

- Sporophyte dependent gametophytes are present in :
 - (A) Polygonum
 - (B) Psilotum
 - (C) Pteris
 - (D) Pteridium
- 4. Which of the following is not incompatible mating?
 - (A) S_1 $S_2 \times S_1$ S_2
 - (B) S_2 S_3 × S_2 S_3
 - (C) $S_3 S_4 \times S_3 S_4$
 - (D) $S_1 S_2 \times S_3 S_4$

5.	is a potential petrocrop.	7.	The pigment phytochrome is
	(A) Litsea polyantha		converted from Pr to Pfr form by
	(B) Magnolia sphenocarpa		absorbing:
	(C) Jatropha curcas		(A) Red light
	(D) Symplocos grandiflora		(B) Far Red light
6.	Net assimilation of ${\rm CO_2}$ takes place		(C) Infrared light
	with the help of of ${ m C_4}$ plants.		(D) Ultraviolet light
	(A) PEPcase in mesophyll cell	8.	Which of the following breeding
	cytoplasm		methods is not linked to self-
	(B) RUBISCO in bundle sheath		pollinated crops ?
	cell chloroplast		(A) Pedigree method
	(C) PEPcase in bundle sheath cell		(B) Bulk method
	chloroplast		(C) Mass selection method
	(D) RUBISCO in mesophyll cell		
	chloroplast		(D) Double haploid technique

12. Which of the following is not a gene pool is used rarely 9. in breeding programmes. subgroup of the phylum Chordata? (A) Cephalochordata (A) Primary (B) Hemichordata (B) Secondary (C) Agnatha (C) Tertiary (D) Urochordata (D) Quaternary 13. Which of the following is the Why micropropagation is not popular contractile protein of a muscle fibre? scientifically due to ? (A) Actin (A) contamination is a major (B) Troponin problem (C) Mysoin (D) Tubulin (B) genetic stability is uncertain The initial effect of arrival of a wave. (C) capital intensive of depolarization at the axon (D) desired skilled labour is not terminal of a neurosecretory cells is: available (A) influx of sodium ions 11. Which of the following is a (B) opening of clacium ionic channels deuterostome phylum?

(A) Pterobranchia

(B) Chaetognatha

(C) Bryozoa

(D) Arthropoda

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circulation

(C) release of neurohormone into

(D) interaction of neurohormone

vesicles with the plasma

membrane of axon terminal

15.	The male sex differentiation in the echiurid worm Bonellia is:	17.	is an example of
	(A) governed by the temperature of		divergent evolution. (A) Batesian mimicry
	sea water in which the larvae live		(B) Adaptive radiation
	(B) determined by an XO type of		(C) Industrial melanism
	chromosomal interaction		(D) Wings of insects and bats
	(C) caused when the larvae come in contact with bonellin secreted	18.	The male is not involved
	by the female		in the care of its young.
	(D) induced when the number of		(A) sea-horse
	females becomes very large		(B) dung beetle
16.	Which of the following (in sperm) is primarily responsible for hydrolytic		(C) moorhen
	activity during sperm-egg	LEGA	(D) mid-wife toad
	interaction ?	19.	Hookworm causes the disease :
	(A) ZP-1		(A) Ancylostomiasis
	(B) Acrosin		(B) Ascariasis

(C) Spermease

(D) Glycolipase

(C) Enterobiasis

 (\mathbf{D}) Elephantiasis

- 20. Sleeping sickness is transmitted by:
 - (A) Anopheles stephensi
 - (B) Culex fatigans
 - (C) Glossina palpalis
 - (D) Phlebotomus argentipes
- 21. The effects of chemical substances
 can occur due to contaminant
 transfer between living organisms
 along with their toxicological effects
 at various levels. The level at which
 responses are based on direct
 biological effects including mortality,
 behavioural changes and
 physiological impairment is:
 - (A) Population level
 - (B) Organism level
 - (C) Community level
 - (D) Ecosystem level

- 22. In polarized cells (e.g. epithelial cells) internalized receptor across the cell to the opposite domain of the plasma membrane, a process is called:
 - (A) Phagocytosis
 - (B) Transcytosis
 - (C) Pinocytosis
 - (D) Endocytosis
- 23. The category given to protection of a species in its occupancy area which encapsulates other species is :
 - (A) Umbrella species
 - (B) Flagship species
 - (C) Threatened species
 - (D) Keystone species

- 24. Which of the following is an example of numerical change in chromosome number ?
 - (A) Down's syndrome
 - (B) Progeria syndrome
 - (C) Xeroderma pigmentosum
 - (D) Parkinson's disease
- 25. Chemicals like peroxides and metal ions such as Fe²⁺ and Cu²⁺ can cause mutations in DNA by :
 - (A) Converting thymine to uracil
 - (B) Introducing double-strand break
 - (C) Inducing single-strand break of phosphodiester bond
 - (D) Causing transversion of bases

- 26. Lampbrush chromosome of Xenopus is a good experimental system to study :
 - (A) DNA replication
 - (B) rRNA gene transcription
 - (C) DNA recombination
 - (D) Chromosomal aberration
- 27. Which of the following cellular signaling pathways is involved in macromolecular export through nuclear pore complex in mammalian cells?
 - (A) receptor tyrosine kinase
 - (B) JAK-STAT
 - (C) Ran-GTP
 - (D) G-protein coupled receptor

- 28. Water readily dissolves charged biomolecules by replacing
 - (A) water molecules by solute molecules
 - (B) solute-solute hydrogen bonds by solute-water hydrogen bonds
 - (C) big molecules by small molecules
 - (D) positive charges by negative charges
- 29. Food webs based on the impact of species on the structure of community are called:
 - (A) Energy flow food webs
 - (B) Functional food webs
 - (C) Connectedness webs
 - (D) Source webs

- 30. The pyramid of biomass is always:
 - (A) in upright position
 - (B) in inverted position
 - (C) subject to reversals
 - (D) subject to no change
- 31. Reverse transcriptase is an enzyme unique to the retroviruses. Its function includes all the following activities except:
 - (A) DNA-dependent DNA polymerase activity
 - (B) RNA polymerase activity
 - (C) RNA-dependent DNA polymerase activity
 - (D) Integration activity

- 32. Mycoplasma are bacterial cells that :
 - (A) fail to reproduce on artificial media
 - (B) have a rigid cell wall
 - (C) are resistant to penicillin
 - (D) stain well with Gram's stain
- 33. Ideally, an antibiotic should focus on a microbial target not found in mammalian cells. By this standard, which of the following antibiotic agents would be expected to be most toxic to humans?
 - (A) Penicillin
 - (B) Mitomycin
 - (C) Bacitracin
 - (D) Vancomycin

- 34. After the formation of products in the biorector, it undergoes through some processes, before a finished product to be ready for marketing is called:
 - (A) Elution
 - (B) Downstream processing
 - (C) Inoculation
 - (D) Upstream processing
- 35. Which of the following protein plays a central role in determining the choice between the lytic and lysogenic cycles of λ phage?
 - (A) N protein
 - (B) CII protein
 - (C) Cro protein
 - (D) Q protein

- 36. Exogenous antigens are presented to T lymphoctes via :
 - (A) MHC class I molecules
 - (B) MHC class II molecules
 - (C) MHC class III molecules
 - (D) Interleukins
- 37. A transmembrane signal receptor protein or related molecules with roles in innate immunity came to be known as:
 - (A) Pattern recognition receptor
 - (B) Toll-like receptors
 - (C) Complement proteins
 - (D) Lipopolysaccaride receptor
- 38. The forces that hold the non-polar regions of the molecules together are called:
 - (A) hydrophilic interaction
 - (B) hydrophobic interaction
 - (C) ionic interaction
 - (D) amphipathic interaction

- 39. How many base pairs per helical turn are present in short stretches of Z-DNA in bacteria?
 - (A) 11
 - (B) 10.5
 - (C) 12
 - (D) 9
- 40. The enzymatic activity of the L19 IVS ribozyme results from :
 - (A) Transesterification
 - (B) Phosphodiester bond hydrolysis
 - (C) Covalent bond formation
 - (D) Triphosphate bond cleavage
- All of the following statements about allosteric enzymes are true, except:
 - (A) allosteric enzymes display Michaelis-Menten kinetics
 - (B) allosteric enzymes are often subject to feedback inhibition
 - (C) allosteric effectors can act to either increase or decrease affinity for substrates at the active sites
 - (D) allosteric enzymes are often regulated by binding of ligands to sites different than the active sites

- 42. In coordinated control of metabolism, malate can cross the mitochondrial membrane and give rise to oxaloacetate in the cytosol, which further biotransforms to
 - (A) Proline, arginine and glutamine
 - (B) Lysine, threonine and asparagine
 - (C) Phenylalanine, tryptophan and tyrosine
 - (D) Lucine and lysine
- 43. Which of the following enzyme is carrying reversible reaction in glycolysis?
 - (A) Hexokinase
 - (B) Phosphofructokinase
 - (C) Phosphoglycerate kinase
 - (D) Pyruvate kinase

- 44. Which of the following reactions will not proceed in the direction written, assuming that the reactants are initially present in a 1 : 1 molar ratio ?
 - (A) ATP + Creatine → Creatine Phosphate + ADP
 - (B) ATP + Glycerol → Glycerol 3-phosphate + ADP
 - (C) ATP + Fructose → Fructose 6-phospahte + ADP
 - (D) ATP + Glucose → Glucose 6-phosphate + ADP
- 45. Coupling of oxidation and phosphorylation can be demonstrated by using oligomycin. This antibiotic inhibits which of the following process?
 - (A) Inhibition of electron transfer
 - (B) Inhibition of ATP synthase
 - (C) Uncoupling of phosphorylation from electron transfer
 - (D) Inhibition of ATP-ADP exchange

- 46. Which one of the following genes is involved in colon carcinoma?
 - (A) NF-KB
 - (B) APC
 - (C) EGFR
 - (D) BRCA1

47. Inteins are:

- (A) external or internal segments of proteins that are removed by proteolysis resulting in an active protein
- (B) external segment of proteins that are added to other proteins by protein ligase
- (C) Internal segments of proteins that are removed after translation with the external segments becoming linked together
- (D) External segments of proteins that are covalently attached to lipids for membrane insertion

- 48. For transcriptome analysis of a cell one estimates :
 - (A) all RNA molecules present in a cell
 - (B) protein coding RNA molecules present in a cell
 - (C) ribosomal RNA molecules present in a cell
 - (D) transfer RNA molecules present in a cell
- 49. The principle of genetic linkage refers to :
 - (A) the fact that the different levels for a given gene will be located at the same position in a chromosome
 - (B) the discovery that multiple genes are responsible for some traits
 - (C) the observation that some genes will be inherited together if they are located in the same chromosome
 - (D) the observation that darkly staining regions of chromosomes do not contain genes

- 50. Promoter escape in transcription means :
 - (A) transition of closed complex to open complex
 - (B) movement of RNA polymerase away from the promoter region and its commitment to making RNA transcript
 - (C) release of RNA polymerase from the preinitiation complex so that no transcript is syntherized
 - (D) transition of open complex to ternary complex
- 51. In bacteria which of the following enzymes remove the RNA primer present at the start of each okazaki fragment:
 - (A) DNA polymerase I
 - (B) DNA polymerase III
 - (C) DNA polymerase II
 - (D) RNase H

- 52. Lateral gene transfer includes all of the following DNA exchanges, except:
 - (A) The transfer of genes from bacteria to archea
 - (B) The transfer of genes from archea to bacteria
 - (C) The transfer of genes from one species to another
 - (D) The transfer of genes by micromanipulation
- 53. Tryptophan operon is :
 - (A) vely repressed
 - (B) + vely induced
 - (C) vely induced
 - (D) + vely repressed
- 54. Codon-anticodon pairing occurs by:
 - (A) Covalent bonds
 - (B) Electrostatic interactions
 - (C) Hydrogen bonds
 - (D) Hydrophobic interactions

- 55. Which of the following modifications in the core histones in a chromatin indicates its active conformation for transcriptions of genes contained in it?
 - (A) Methylation
 - (B) Acetylation
 - (C) Ubiquitination
 - (D) Phosphorylation
- 56. Why cytochrome P 450 mediated reactions are usually called as mixed function oxidases?
 - (A) Cytochrome P 450 is involved in both oxidation and reduction of xenobiotics
 - (B) One atom of oxygen is reduced to water and other is used for oxidation of xenobiotics
 - (C) Cytochrome P 450 and cyt. P 450 reductase are involved in biotransformation
 - (D) These reactions are the combination of phase I and II

- 57. RNA tumor virus can be oncogenic and lead to cell transformation because it possesses :
 - (A) LTRS
 - (B) GAG proteins
 - (C) Protooncogene
 - (D) V-one
- 58. All DNA polymerases are template dependent, except :
 - (A) DNA polymerase I
 - (B) Sequenase
 - (C) Terminal deoxynucleotidyl transferase
 - (D) DNA polymerase and primase

- 59. Match the following and select the correct answer from the codes given below:
 - (1) PCR
- (p) For hybridisation
- (2) Probe
- (q) For gene amplification
- (3) Electrophoresis (r) For monoclonal antibody production
- (4) Hybridoma (s) For DNA fragment separation

Codes:

- (A) (1)-(p), (2)-(q), (3)-(r), (4)-(s)
- (B) (1)-(q), (2)-(s), (3)-(p), (4)-(r)
- (C) (1)-(q), (2)-(p), (3)-(s), (4)-(r)
- (D) (1)—(p), (2)—(q), (3)–(s), (4)—(r)
- 60. The genetically modified (GM) brinjal in India has been developed for :
 - (A) enhancing shelf life
 - (B) insect resistance
 - (C) drought resistance
 - (D) enhancing mineral content

- 61. Liposome encapsulated drugs are good candidates for drug targeting against :
 - (A) intracellular parasites
 - (B) extracellular parasites
 - (C) free living parasites
 - (D) gut dwelling parasites
- 62. Mark the correct statement for Na-K ATPase. It exchanges :
 - (A) equal numbers of Na⁺ and and K⁺
 - (B) 3Na+ for 2K+
 - (C) 2K+ for 1 Na+
 - (D) 2Na+ for 3K+

- 63. Mark the incorrect statement for most of the channels in a biological membrane, they :
 - (A) typically show less stereospecificity than carriers
 - (B) are usually saturable
 - (C) are mostly oligomeric complexes
 - (D) allow transport of molecules from higher to lower concentration gradient
- 64. The kinetics of DNA-renaturation during nucleic acid hybridisation is given by which of the following expressions:

(A)
$$c/co = \frac{co + k_2 \cdot t}{1 + co \cdot t}$$

(B)
$$c/co = \frac{1}{1 + co \cdot k_2 \cdot t}$$

(C)
$$c/eo = \frac{1 + co.t}{k_2}$$

(D)
$$c/co = k_2 \cdot t$$

- 65. Biological specimens observed under a light microscope usually have a size range of :
 - (A) 1 nm to 100 nm
 - (B) 1 μm to 1 mm
 - (C) 100 nm to 1 µm
 - (D) 0.1 nm to 100 nm
- 66. Which of the following techniques does not require a primer?
 - (A) nested PCR
 - (B) rt PCR

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- (C) nick translation
- (D) random primer labelling
- 67. Which of the following protein purification techniques would be suitable for glycoproteins?
 - (A) Lectin affinity chromatography
 - (B) Gel filtration chromatography
 - (C) Silica gel chromatography
 - (D) Ion exchange chromatography

- 68. You are carrying out sub-cellular fractionation by differential centrifugation. Which of the following cell component will pellet at the last?
 - (A) Plasma membrane
 - (B) Lysosomes
 - (C) Microsomes
 - (D) Cytosol
- 69. If animal cells are cultured in DMEM medium with HEPES buffer, fetal cast serum and antibiotics to achieve 100% confluency, the colour of the medium will :
 - (A) change from pink to orangeyellow
 - (B) change from colourless to pink
 - (C) not change
 - (D) change from orange yellow to pink

- 70. One picomole of a 2.0 kb gene (X) with EcoRI ends was inserted at an EcoRI site present in the middle of another 1 p mole 2 kb gene (Y) by ligation. The ligated DNA product was completely digested by EcoRI. The resultant product will be:
 - (A) 2 p mole of a 3kb DNA
 - (B) 1 p mole each of a 2 kb DNA and two 1 kb DNA
 - (C) 0.5 p mole of a 3 kb DNA
 - (D) 0.5 p mole each of a 2 kb DNA and two 1 kb DNA
- 71. Which one of the following is used as a tracking dye for agarose gel electrophoresis of nucleic acids?
 - (A) Ethidium bromide
 - (B) Amido black
 - (C) Comassie brilliant blue
 - (D) Xylene-cynol

- 72. The fluorescence of fluorescein mercuric acetate when reacted with RNase in 1 m NaOH is decreased due to :
 - (A) disulfide bond
 - (B) peptide bond
 - (C) ionic bond
 - (D) protein lysis
- 73. A population of different types of cells expressing A and B cell surface antigens was subjected to analysis by flow cytometry using anti-A and anti-B antibodies labelled with two different fluorescent dyes. In order to calculate percentage of cells expressing A and/or B antigen(s) the data should be plotted as:
 - (A) A + B versus A
 - (B) A + B versus B
 - (C) B versus A
 - (D) A B versus A or B

74. The mean for a binomial distribution of 10 samples having a probability of occurrence of 0.4 will be :

- (A) 2
- (B) 4
- (C) 2^4
- (D) 40
- 75. As compared to the distribution of actual sample values, the distribution of "Sample means" will show:
 - (A) A lower mean, no change in standard deviation
 - (B) A higher standard deviation, no change in mean
 - (C) No change in mean or standards deviation
 - (D) A lower standard deviation, no change in mean

ROUGH WORK