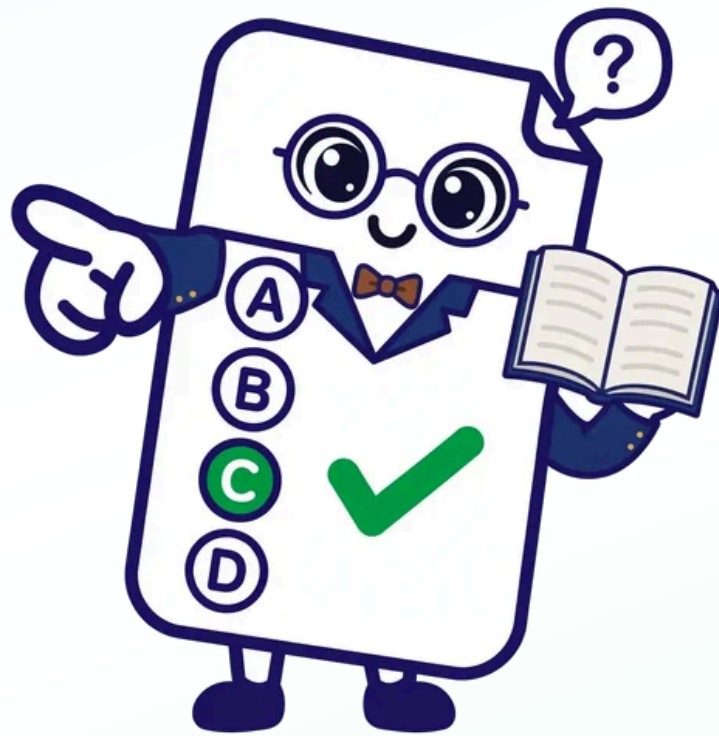




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100 MCQs across one paper, each drawn in the same subject split as the real Subject Specialist Biology Test paper:

- Biology: 80 MCQs per paper
- English: 5 MCQs per paper
- General Knowledge: 5 MCQs per paper
- Pakistan Studies: 4 MCQs per paper
- Pakistan Current Affairs: 3 MCQs per paper
- Islamic Studies: 2 MCQs per paper
- Computer Science and IT: 1 MCQs per paper



MODEL PAPER 1 OF 1

Subject Specialist Biology Test

100 MCQs · 120 minutes · answer key at the back



Biology

80 MCQs

1. Study of environmental relations is called:

- ☐ A Physiology
- ☐ B Pulmonology
- ☐ C Morphology
- ☐ D Ecology

2. The most abundant lymphocytes are:

- ☐ A C-cells
- ☐ B A & B cells
- ☐ C B & C cells
- ☐ D B & T cells

3. Which of the following represents the bile salts?

- ☐ A Cholic acid
- ☐ B Biliverdin
- ☐ C Haemoglobin
- ☐ D Both (A) and (B)

4. The presence of calcium is essential for the normal development of plants. An adequate supply of calcium appears to stimulate the development of which part of the plants?

- ☐ A Leaves
- ☐ B Fruits
- ☐ C Root hairs
- ☐ D Branches

5. NADH produces how many ATP?

- ☐ A 2 ATP
- ☐ B 3 ATP
- ☐ C 4 ATP
- ☐ D 6 ATP

6. Movement of molecules against the concentration gradient is?

- ☐ A Passive transport
- ☐ B Active transport
- ☐ C Facilitated diffusion
- ☐ D Filtration

7. Surplus amino acids in the body are broken down to form urea in:

- ☐ A Spleen
- ☐ B Kidneys
- ☐ C Liver
- ☐ D Pancreas

8. Range of normal total lung capacity in humans is:

- ☐ A 5-6 liter.
- ☐ B 8-9 liter
- ☐ C 10-11 liter
- ☐ D 12-13 liter

9. Proteoglycan in cartilages (which consists of polysaccharides) are also attached to:

- ☐ A Chondroitin
- ☐ B Ossein
- ☐ C Casein
- ☐ D Cartilagin
- ☐ E None

10. Acetabularia mediterranea is:

- ☐ A A fungus
- ☐ B An algae
- ☐ C A protozoan
- ☐ D A prokaryote

11. Meissner corpuscles are the receptors for

- ☐ A Temperature
- ☐ B Pain
- ☐ C Pressure
- ☐ D Touch

12. Which of the following is the correct sequence of PCR?

- ☐ A Heating → Cooling → Add Primer → Copying of strand
- ☐ B Heating → Add Primer → Cooling → Copying of strand
- ☐ C Add Primer → Heating → Cooling → Copying of strand
- ☐ D Cooling → Add Primer → Heating → Copying of strand

13. A structure established between the uterine and foetal tissues for the exchange of oxygen, carbon dioxide, waste, nutrients and other materials is:

- ☐ A Amnion
- ☐ B Placenta
- ☐ C Endometrium
- ☐ D Uterus

14. LH is produced as the result of

- ☐ A Ovulation
- ☐ B Decrease in FSH production
- ☐ C Increase in estrogen level
- ☐ D Both B and C

15. In fishes, the heart pumps:

- ☐ A Pure blood to body
- ☐ B Impure blood to body
- ☐ C Pure blood to gills
- ☐ D Impure blood to gills

16. A Punnet square is used to determine the

- ☐ A result of mitosis
- ☐ B result of meiosis
- ☐ C actual outcome of a cross
- ☐ D probable outcome of cross

17. Which option is correct about non-competitive inhibition

- ☐ A Malonate act as inhibitor
- ☐ B Enzyme shape distorted
- ☐ C Competition for active site
- ☐ D Inactive enzyme getting reactivated

18. First infectious disease against which effective method of prevention developed was a _:

- (A) Bacterial disease
- (B) Viral disease
- (C) Protozoan disease
- (D) Viroid disease

19. The theory of new creation was composed by:

- (A) George Cuvier
- (B) James Hustion
- (C) Louis Agassiz
- (D) Alfred Russel Wallace

20. All of the following are polysaccharides EXCEPT:

- (A) Cellulose
- (B) Glycogen
- (C) Starch
- (D) Lactose

21. In humans, the largest body organ is:

- (A) Liver
- (B) Skin
- (C) Brain
- (D) Lungs

22. In _ zone the light is insufficient to support photosynthesis.

- (A) Desert.
- (B) Littoral.
- (C) Profundal.
- (D) All of these.

23. Which of the following is NOT TRUE about interferons?

- (A) Belong to cytokines
- (B) Activate natural killer cells
- (C) Activate immune cells
- (D) Secrete interleukin

24. Teeth adapted for cutting are:

- (A) Canines
- (B) Incisors
- (C) Premolar
- (D) Molar

25. A living tissue which in addition to its regular function also provides support to plants is:

- (A) Xylem
- (B) Collenchyma
- (C) Sclerenchyma
- (D) Parenchyma

26. Aerobic respiration is a pathway involving a series of reactions. What is the final reaction in the pathway?

- (A) The formation of carbon dioxide
- (B) The oxidation of cytochrome
- (C) The reduction of oxygen to water
- (D) The synthesis of ATP

27. If a person has 44 autosomes + XXY, he will suffer from:

- (A) Klinefelter's syndrome
- (B) Down's syndrome
- (C) Turner's syndrome
- (D) Edward's syndrome

28. Highly toxic nitrogenous excretory products are:

- ☐ A CO₂
- ☐ B Uric Acid
- ☐ C Urea
- ☐ D Ammonia

29. The method of bringing oxygenated air into contact with a gas exchange surface is called ?

- ☐ A Photorespiration
- ☐ B Ventilation
- ☐ C Gaseous transport
- ☐ D Respiration

30. The collagen fibers of bone are hardened by deposit of:

- ☐ A Calcium phosphate
- ☐ B Calcium carbonate
- ☐ C Calcium oxalate
- ☐ D Calcium bicarbonate

31. Which one of the following animals is viviparous?

- ☐ A Rat
- ☐ B Kangaroo
- ☐ C Duckbilled platypus
- ☐ D Spiny ant eater

32. Deficiency of which of the following causes diuresis?

- ☐ A LH (Luteinizing Hormone)
- ☐ B ACTH (Adrenocorticotrophic Hormone)
- ☐ C FSH (Follicle-Stimulating Hormone)
- ☐ D ADH (Antidiuretic Hormone)

33. For which purpose are myeloma cells (cancerous B lymphocytes) used in the production of monoclonal antibodies?

- ☐ A Increased rate of cell division
- ☐ B Immunization with antigen
- ☐ C To avoid contamination
- ☐ D As nutrient in media

34. Which of the following structures is formed from ectodermal tissue:

- ☐ A Brain
- ☐ B Muscles
- ☐ C Skeleton
- ☐ D Bones

35. For hepatitis B the incubation period is between _.

- ☐ A 4 and 20 weeks
- ☐ B 6 and 20 weeks
- ☐ C 2-26 weeks
- ☐ D 2-6 weeks

36. The right atrium of the heart usually receives the

- ☐ A Deoxygenated Blood
- ☐ B Oxygenated Blood
- ☐ C Filtered Blood
- ☐ D Non-Filtered Blood

37. If one pair of alleles exhibits complete dominance while the other pair exhibits incomplete dominance, what will be the outcome in F1 generation of a cross between AABB (Male) X aabb (female) parents?

- ☐ A all phenotypes will be similar to the male parent
- ☐ B all phenotypes will be similar to the female parent
- ☐ C there will be 1:1 between both parental phenotypes
- ☐ D there will be 100% recombinant phenotypes

38. Enzymes belong to which class of biomolecules?

- ☐ A Carbohydrates
- ☐ B Lipids
- ☐ C Proteins
- ☐ D Nucleic acids

39. A combination of alpha interferon and ribavirin is used for the treatment of hepatitis:

- ☐ A Hepatitis B
- ☐ B Hepatitis A
- ☐ C Hepatitis D
- ☐ D Hepatitis C

40. Human appendix, coccyx and nictitating membrane of the eye are:

- ☐ A Vestigial organs
- ☐ B Homologous organs
- ☐ C Analogous organs
- ☐ D Embryonic organs

41. The bond that is formed b/w two monosaccharide units is called

- ☐ A Ionic bond
- ☐ B Hydrogen bond
- ☐ C Peptide bond
- ☐ D Glycosidic bond

42. The study of fishes is called:

- ☐ A Ornithology
- ☐ B Ichthyology
- ☐ C Herpetology
- ☐ D Ethology

43. The ultimate source of energy in an ecosystem is

- ☐ A Photosynthesis
- ☐ B Sun
- ☐ C Plants
- ☐ D Water

44. Which of the following diseases can be prevented through vaccination?

- ☐ A AIDS and Cancer
- ☐ B Malaria and AIDS
- ☐ C Typhoid and Cancer
- ☐ D Measles and Mumps

45. _ are the parts of a gastric gland that produce hydrochloric acid.

- ☐ A Parietal Cells
- ☐ B Goblet Cells
- ☐ C Chief Cells
- ☐ D Zymogen Cells

46. In the process of photosynthesis water act as:

- ☐ A Proton acceptor
- ☐ B Electron donor
- ☐ C CO₂ reducer
- ☐ D CO₂ acceptor

47. Which of the following type of cytochromes is common in photosynthesis and respiration?

- ☐ A Cyt "O"
- ☐ B Cyt "a₃"
- ☐ C Cyt "b"
- ☐ D Cyt "c"

48. Chromosomal abnormality in Turner syndrome is represented by?

- ☐ A XXX
- ☐ B XYY
- ☐ C XO
- ☐ D XXY

49. Animals which are unable to adjust their internal salt concentration according to the external environment are:

- ☐ A Anhydrobiosis
- ☐ B Osmoregulators
- ☐ C Thermoregulatory
- ☐ D Osmoconformers

50. Of 100 ml of arterial blood, oxygen provided to the tissues is:

- ☐ A 2ml
- ☐ B 3ml
- ☐ C 4ml
- ☐ D 5ml

51. A hinge joint is present between which of the following bones?

- ☐ A Humerus and radio-ulna
- ☐ B Femur and pectoral girdle
- ☐ C Femur and acetabulum
- ☐ D Humerus and pectoral girdle

52. Which of the following is NOT an innate behavior?

- ☐ A A mammal sucking milk
- ☐ B A dog looking for its food dish
- ☐ C A worm moving away from bright light
- ☐ D A spider spinning a web

53. The part of the hind brain responsible for the balance and equilibrium of the body is called:

- ☐ A Medulla
- ☐ B Cerebellum
- ☐ C Pons
- ☐ D Thalamus

54. During PCR which enzyme is used to do polymerization of DNA fragments

- ☐ A RNA polymerase
- ☐ B DNA polymerase
- ☐ C Taq polymerase
- ☐ D DNA ligase

55. During the development of the chick peripheral part of the blastoderm lies unseparated from the yolk and forms:

- ☐ A Area pellucida
- ☐ B Area opaca
- ☐ C Notochord
- ☐ D Primitive streak

56. The estrogen hormone secretion during oogenesis is stimulated by:

- ☐ A Luteinizing Hormone
- ☐ B Inhibin
- ☐ C Follicle-Stimulating Hormone
- ☐ D Testosterone

57. The opening between right atrium and right ventricle is guarded by

- ☐ A semi lunar valve
- ☐ B tricuspid valve
- ☐ C bicuspid valve
- ☐ D semicircular valve

58. If two heterozygous tall plants are crossed together, the proportion of phenotypically tall plants will be:

- ☐ A 50%
- ☐ B 25%
- ☐ C 75%
- ☐ D 100%

59. This figure represents a _ inhibitor.

- ☐ A Non-competitive
- ☐ B Competitive
- ☐ C Irreversible
- ☐ D Isosteric

60. Most favorite host of HIV virus is?

- ☐ A Lymphocytes
- ☐ B RBC
- ☐ C T_Cell
- ☐ D B_ cells

61. Appendix is vestigial in man but may play role in:

- ☐ A Digestion
- ☐ B Excretion
- ☐ C Immunity
- ☐ D Movement

62. A group of ribosomes attached to mRNA are known as:

- ☐ A Phagosome
- ☐ B Perosome
- ☐ C Polysome
- ☐ D Punosome

63. Which of the following is the lowest level of biological organization with respect to others?

- ☐ A Multicellular organisms
- ☐ B Biosphere
- ☐ C Species
- ☐ D Population

64. All the food chains and food webs begin with:

- ☐ A Detritus
- ☐ B Herbivores
- ☐ C Green plants
- ☐ D Omnivores

65. Variable amino acid sequences in antibody molecules are found in:

- (A) Both light chains only
- (B) Both heavy chains only
- (C) One heavy and one light chain
- (D) Both heavy and light chains

66. Which one is NOT a metabolic role of liver?

- (A) Glycogenolysis
- (B) Gluconeogenesis
- (C) Deamination
- (D) Immunoglobulin synthesis

67. The cyclic flow of C4 photosynthesis produces:

- (A) ATP and CO₂
- (B) ATP
- (C) Only CO₂
- (D) Only Oxygen

68. The step in glycolysis in which energy transfer is not involved is:

- (A) Glucose phosphate → fructose diphosphate
- (B) Fructose diphosphate → DAP
- (C) PGAL → PGAP
- (D) PGAP → PGA

69. A mature duplicated chromosome consists of:

- (A) Two identical double helical DNA molecules
- (B) Two different double helical DNA molecules
- (C) A double helical DNA molecule distributed in both chromatids
- (D) Histone chains wrapped around DNA core

70. Humans are:

- (A) Ammonotelic
- (B) Ureotelic
- (C) Uricotelic
- (D) None of these

71. About 70% of the carbon dioxide is carried in blood as:

- (A) Carbonate
- (B) Bicarbonate
- (C) Tricarbonate
- (D) Carbonic anhydrase

72. The last four vertebrae in humans are fused to form a structure called:

- (A) Sacrum
- (B) Cervical vertebrae
- (C) Pubis
- (D) Coccyx

73. Apparently which bacteria are more resistant to antibiotics?

- (A) Gram positive bacteria
- (B) Gram negative bacteria
- (C) Both Gram positive & negative
- (D) None of these

74. Thirst is controlled by:

- (A) Pituitary gland
- (B) Adrenal gland
- (C) Parathyroid
- (D) Thyroid

75. This is the 1st heat-stable component used in PCR:

- (A) Taq-isomerase
- (B) Taq-helicase
- (C) Taq-polymerase
- (D) Taq SSBp

76. Muscles develop from:

- (A) ectoderm
- (B) mesoderm
- (C) endoderm
- (D) all of the above

77. In a normal 28 days menstrual cycle when would you expect the LH surge to occur?

- (A) Days 7-10
- (B) Days 11-14
- (C) Days 15-18
- (D) Days 19-22

78. Heparin prevents blood clots and is released by:

- (A) Eosinophils
- (B) Neutrophils
- (C) Monocytes
- (D) Basophils

79. Recalling your knowledge of epistasis based on the coat colour in Labrador retriever; find out the coat colour with genotype Bbee.

- (A) Black
- (B) Chocolate
- (C) Yellow
- (D) White

80. At temperature higher than optimum, enzymatic activity decreases because of:

- (A) Saturation
- (B) Inhibition
- (C) Denaturation
- (D) Composition



English

5 MCQs

81. He asked me _.

- (A) How are you?
- (B) How was I?
- (C) How you are?
- (D) How I was.

82. Which of the following sentences is in correct order?

- (A) We up right drove to Karachi in two days.
- (B) We to Karachi drove in two days right up.
- (C) We right drove to Karachi up in two days.
- (D) We drove right up to Karachi in two days.

83. In each of the following question, four alternative meanings of a word are given. You have to select the nearest correct meaning of the given word and fill the appropriate.Visage

- ☐ A Vision
- ☐ B Illusion
- ☐ C Trunkless
- ☐ D A person's face

84. Spot the error. Enlarged and beautified by later Caliphs, Al-Zahra become the nucleus of a royal suburb whose remains partly evacuated in and after 1910, can still be seen.

- ☐ A By later
- ☐ B Become the
- ☐ C Whose remains
- ☐ D In and after

85. He said to me, May you succeed in life!" The indirect form of the sentence is:

- ☐ A He said to me that may you succeed in life
- ☐ B He prayed that I might succeed in life.
- ☐ C He prayed that he might succeed in life
- ☐ D He prayed that you may succeed in life



General Knowledge

5 MCQs

86. WAFA is the News Agency of _____?

- ☐ A Syria
- ☐ B Palestine
- ☐ C Iran
- ☐ D Indonesia

87. ANSA(ageniza nazionale stampa associata) is the news agency of _____?

- ☐ A Italy
- ☐ B India
- ☐ C United states
- ☐ D Pakistan

88. Which is the biggest Library of the World?

- ☐ A Library of Congress
- ☐ B British Museum Library
- ☐ C National Library of Pakistan
- ☐ D Alexandra Library

89. Utrecht University was founded in the Netherlands on _____?

- ☐ A March 1636
- ☐ B April 1537
- ☐ C October 1638
- ☐ D June 5, 1639

90. Which country is called "land of pure people"?

- ☐ A China
- ☐ B India
- ☐ C Indonesia
- ☐ D Pakistan

**Pakistan Studies**

4 MCQs

91. First president of Pakistan went to Bosnia Herzegovina?

- ☐ A Ayub khan
- ☐ B Zulfikar Ali Bhutto
- ☐ C General Pervaiz Mushraf
- ☐ D Iskandar Mirza

92. Which neighbor country of Pakistan is landlocked?

- ☐ A Iraq
- ☐ B India
- ☐ C China
- ☐ D Afghanistan

93. On _____ President Yahya Khan announced the full integration of the states of Chitral, Dir, and Swat into Pakistan?

- ☐ A 18 July 1965
- ☐ B 28 July 1969
- ☐ C 15 July 1972
- ☐ D 20 July 1948

94. National Assembly approved the Constitution of 1973 on _____?

- ☐ A 23 March 1973
- ☐ B 10 April 1973
- ☐ C 20 July 1973
- ☐ D 10 August 1973

**Pakistan Current Affairs**

3 MCQs

95. What is the name of Pakistan's first indigenous Electro-Optical satellite?

- ☐ A PRSC-EO1
- ☐ B Suparco-1
- ☐ C PakSat-1
- ☐ D JinnahSat

96. Which of the following Pakistani girl has won the 29th World Memory Championships global 2020?

- ☐ A Abeerah Ather
- ☐ B Emma Alam
- ☐ C Syeda Kisa Zehra
- ☐ D None of these

97. Which lawyer has withdrawn from representing Nawaz sharif in NAB references on 11th June 2018?

- ☐ A Salman Aslam butt
- ☐ B Khawaja Haris
- ☐ C Makhdoom Ali khan
- ☐ D Amjad Pervez

**Islamic Studies**

2 MCQs

98. What is falqaram for goats?

- ☐ A 30 goats
- ☐ B 40 goats
- ☐ C 50 goats
- ☐ D 60 goats

99. Namaz commanded in quran for _____ times.

- ☐ A 500 ☐ B 600
☐ C 700 ☐ D 800



Computer Science and IT

1 MCQs

100. An area of a computer that temporarily holds data waiting to be processed is _____?

- ☐ A CPU ☐ B Memory
☐ C Storage ☐ D File

Answer key

Tap any answer to open its full explanation on TestUstad.

Model Paper 1

1	D	2	D	3	A	4	C	5	B	6	B	7	C	8	A	9	A	10	B
11	D	12	A	13	B	14	D	15	D	16	D	17	B	18	B	19	C	20	D
21	B	22	C	23	D	24	B	25	B	26	C	27	A	28	D	29	B	30	A
31	A	32	D	33	B	34	A	35	A	36	A	37	D	38	C	39	D	40	A
41	D	42	B	43	B	44	D	45	A	46	B	47	C	48	C	49	D	50	D
51	A	52	B	53	B	54	C	55	A	56	C	57	B	58	C	59	A	60	C
61	C	62	C	63	A	64	C	65	D	66	D	67	B	68	B	69	A	70	B
71	B	72	D	73	B	74	A	75	C	76	B	77	B	78	D	79	A	80	C
81	D	82	D	83	D	84	B	85	B	86	B	87	A	88	A	89	A	90	D
91	C	92	D	93	B	94	B	95	A	96	B	97	B	98	B	99	C	100	B



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