



Previous Year Question Paper  
of

**SET MH (MAHARASHTRA)**

**LIFE SCIENCES**

**Question Paper – II**

**State Eligibility Test**

**2020, December**

*(Original Question Paper with Answer Key)*

State Eligibility Test



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## Maharashtra SET in Life Sciences Paper II December 2020

- The way, species behave, obtain food and utilize the natural resources of an ecosystem, is called:**
  - Species diversity
  - Ecosystem diversity
  - Functional diversity
  - Genetic diversity
- In numerical taxonomy OTUS for analysis of species are :**
  - Families
  - Genera
  - Species
  - Populations
- Which of the following plant species has contributed to 'A' genome of Triticum aestivum?**
  - Aegilops squarrosa
  - Aegilops tauschii
  - Triticum monococcum
  - Aegilops speltoides
- Brassica juncea is an amphidiploid from interspecific cross of B. nigra and.....**
  - B. napus
  - B. campestris
  - B. oleracea
  - B. carinata
- Which of the following display insecticidal activity?**
  - Bacillus cereus
  - Bacillus subtilis
  - Bacillus stearothermophilus
  - Bacillus sphaericus
- Which of the following genotypes are most suitable as parents for hybrid variety development?**
  - Isogenic lines
  - Near-Isogenic lines
  - Pure lines
  - Inbred lines
- Which of the following DNA sequencing method uses luciferase to generate light for detection of the individual nucleotide added to the nascent DNA, and the combined data are used to generate DNA sequence?**
  - Chain termination method
  - Pyrosequencing
  - Dye-terminator sequencing

8. **In commercially available TLC plates, the size of thin layer of absorbent is about:**
- (A) 50 microns
  - (B) 0.2 mm
  - (C) 0.1 cm
  - (D) 600 microns
9. **Higher supply of glucose inhibits transcription of lac operon because of low synthesis of:**
- (A) Cyclic AMP
  - (B) Lac I encoded repressor protein
  - (C) Catabolite repressor protein
  - (D) Lactose
10. **Androgenesis in plants refers to:**
- (A) development of androecium
  - (B) development of anthers
  - (C) development of haploid embryo from microspores or pollen in vitro
  - (D) Initiation of androecium
11. **Which of the following is not an ex-situ germplasm conservation strategy?**
- (A) Seed gene bank
  - (B) DNA gene bank
  - (C) Biosphere reserve
  - (D) Botanical garden
12. **Hormone which substitutes long photoperiod required for flowering is:**
- (A) Auxin
  - (B) Cytokinin
  - (C) Gibberellin
  - (D) Brassinosteroids
13. **One of the following is very essential activity before execution of any developmental projects:**
- (A) Biodiversity Surveys
  - (B) Environmental Impact Assessment
  - (C) Environmental Auditing
  - (D) Demographic Surveys
14. **Which of the following statements is not true for satellite DNAs?**
- (A) These are highly repetitive DNA sequences
  - (B) They do not code for protein
  - (C) They are major constituent of centromeric heterochromatin region
  - (D) These are repetitive DNA sequences characterized by its relatively low rate of renaturation
15. **A hybrid operon was constructed by fusing the structural genes of *trp* operon and promoter region of lac operon. Efficient expression of this chimeric operon will require:**
- (A) Presence of both lactose and glucose
  - (B) Absence of lactose and presence of glucose 4 A
  - (C) Presence of both lactose and tryptophan

(D) Presence of lactose and absence of glucose

**16. During respiration correct sequence of electron acceptors in ATP synthesis is:**

- (A) Cyt b, c, , a
- (B) Cyt c, b, a,
- (C) Cyt , a, b, c
- (D) Cyt b, c, a,

**17. A transcription unit is 8000 nucleotides long. If only 15% of this unit is exon, calculate the approximate molecular weight of the protein encoded:**

- (A) 40 kDa
- (B) 1200 kDa
- (C) 44 kDa
- (D) 100 kDa

**18. DNA repair mechanisms are able to distinguish newly synthesized DNA strands from older strands because:**

- (A) new strands do not contain cytosine bases
- (B) old strands are methylated while new strands are not
- (C) new strands are methylated while old strands are not
- (D) new strands are heavy

**19. Which of the following phosphorylated compounds on hydrolysis will yield highest amount of energy?**

- (A) Glucose 6-phosphate
- (B) ATP
- (C) 1, 3 Bisphosphoglycerate
- (D) Phosphoenolpyruvate

**20. Fungi can synthesize one of the following structural polysaccharides from the beta-glucose:**

- (A) amylopectin
- (B) chitin
- (C) cellulose
- (D) lignin

**21. Which one of the following is a monophyletic group representing entirely parasitic species?**

- (A) Microsporida
- (B) Sarco-mastigophora
- (C) Apicomplexa
- (D) Helminthes

**22. One of the common symptoms of a metabolic disorder is that the patients have lighter hair and skin colour than their siblings. What is the name of this disorder?**

- (A) Alkaptonuria
- (B) Tay-Sachs disease
- (C) Phenylketonuria
- (D) Cori's disease

**23. Which of the following is the correct set of Lipinski's rules that helps in predicting poor absorption of a drug molecule in human physiological system?**

- (A) (i) The molecular weight is greater than 500.  
(ii) The number of hydrogen bonds is less than 5.
- (B) (i) The molecular weight is greater than 500.  
(ii) The number of hydrogen bonds is greater than 5.
- (C) (i) The molecular weight is less than 500.  
(ii) The number of hydrogen bonds is less than 5.
- (D) (i) The molecular weight is less than 500.  
(ii) The number of hydrogen bonds is greater than 5.

**24. The final stable community in ecological succession is:**

- (A) Climax
- (B) Sere
- (C) Pioneers
- (D) Carnivores

**25. Which one of the following is not a functional unit of anecosystem?**

- (A) Productivity
- (B) Stratification
- (C) Energy flow
- (D) Decomposition

**26. Cyanide or azide used in poisoning, irreversibly bind to .....that acts as a critical link between aerobic respiration and oxygen.**

- (A) Succinate dehydrogenase
- (B) Coenzyme Q
- (C) NADH dehydrogenase
- (D) Cytochrome C Oxidase

**27. Klinefelter's Syndrome is identified by one of the following karyotypes ?**

- (A) 45, XO
- (B) 47, XXY
- (C) 45, XY
- (D) 45, XX

**28. What is the normal role of restriction enzyme in bacterial cells?**

- (A) to degrade the bacterial chromosome into small pieces during replication
- (B) to degrade invading phage DNA
- (C) to produce RNA primers for replication
- (D) to restrict growth of the bacterium

- 29. The tryptophan operon in Escherichia coli demonstrates level of regulation called.....by the termination of transcription if tryptophan is abundant in cells.**
- (A) activation
  - (B) corepression
  - (C) attenuation
  - (D) termination
- 30. Which of the following transmits Yellow fever' and 'West Nile fever'?**
- (A) Ticks
  - (B) Kissing bugs
  - (C) Deer flies
  - (D) Mosquitoes
- 31. The highest level of succinic dehydrogenase is found in which one of the following muscle fiber types?**
- (A) White fibers
  - (B) Intermediate fibers
  - (C) Pink fibers
  - (D) Red fibers
- 32. The traditional division of the flowering plants into monocots and dicots is not followed into system of classification.**
- (A) APG
  - (B) Bentham and Hooker's
  - (C) Engler and Prantl's
  - (D) Armen Takhtajan's
- 33. Active transport of a substance across a membrane requires:**
- (A) a gradient
  - (B) water
  - (C) ATP
  - (D) Phospholipid
- 34. Most fungi derive nutrition through:**
- (A) Photosynthesis
  - (B) Engulfing bacteria
  - (D) Engulfing protozoa
- 35. Cytokinines are:**
- (A) Adenine derivatives
  - (B) Guanine derivatives
  - (C) Cytosine derivatives
  - (D) Thymine derivatives

**36. Coiled cochlea is found in:**

- (A) Mammals
- (B) Mammals as well as in birds
- (C) Birds and reptiles
- (D) All vertebrates without exception

**37. Some behavior patterns appear only after a specific developmental stage or time. This stage/time is called:**

- (A) Imprinting
- (B) Maturation
- (C) Learning
- (D) Instinct

**38. The absorbance A, of a  $5 \times 10^{-4}$  M solution of the amino acid tyrosine, at a wavelength of 280 nm, is 0.75. The path length of cuvette is 1 cm. What is the molar absorption coefficient?**

- (A)  $150 \text{ m}^{-1} \text{ cm}^{-1}$ .
- (B)  $1500 \text{ M}^{-1} \text{ cm}^{-1}$
- (C)  $3000 \text{ M}^{-1} \text{ cm}^{-1}$
- (D)  $4500 \text{ M}^{-1} \text{ cm}^{-1}$

**39. Secondary conformation of a globular protein in solution can be best determined by:**

- (A) Fluorescence spectroscopy
- (B) Electron microscopy
- (C) Analytical ultracentrifugation
- (D) Circular dichroism

**40. The transition from mitotically dividing spermatogonia to meiotically dividing spermatocytes is promoted by:**

- (A) Nerve growth factor
- (B) Retinoic acid
- (C) Stem cell factor
- (D) Glial-derived neurotrophic factor

**41. The nerve impulse:**

- (A) can propagate in both the directions in an axon
- (B) can propagate from axon hillock towards terminal only
- (C) cannot propagate from terminal towards soma
- (D) can propagate in an injured neuron only

**42. Which of the following sequence of biomass is not correct?**

- (A) Tundra-Taiga-Steppes
- (B) Downs-Savannah-Medi- terranean
- (C) Veldts-Tropical rain forests-Deserts
- (D) Tropical rain forests-Medi-terranean-Savannah



- 43. The radioactive iodine ( $^{131}\text{I}$ ) has a half-life of eight days. The amount of 0.5 g sample left after 32 days would be:**
- (A) 125 mg
  - (B) 62.5 mg
  - (C) 31.25 mg
  - (D) 0.25 g
- 44. ATP can be formed from ADP by direct transfer of a phosphoryl group from phosphoenol pyruvate. Such type of reaction is called as:**
- (A) Photo-phosphorylation
  - (B) Oxidative phosphorylation
  - (C) Substrate level phosphorylation
  - (D) Reductive phosphorylation
- 45. Which of the following viruses has DNA as its genome?**
- (A) HIV
  - (B) Tobacco mosaic virus
  - (C) Cauliflower mosaic virus
  - (D) Cucumber mosaic virus
- 46. Two proteins have the same molecular weight and same isoelectric point. The best way to resolve them would be by:**
- (A) Ion exchange chromatography
  - (B) Gel filtration chromatography
  - (C) Reverse-phase chromatography
  - (D) Chromato-focusing
- 47. The unit of pollen dispersal in *Calotropis* is :**
- (A) dyad
  - (B) tetrad
  - (C) monad
  - (D) pollinium
- 48. Root Inducing (RI) plasmid was derived from:**
- (A) *Agrobacterium tumefaciens*
  - (B) *Agrobacterium rhizogenes*
  - (C) *Azotobacter vinelandii*
  - (D) *Azospirillum brasilense*
- 49. Synaptogenesis helps in:**
- (A) Survival of glia
  - (B) Survival of neurons
  - (C) Giving shape to and keeping neurons in place
  - (D) Memory formation and storage



**50. In developing brain, notch signalling :**

- (A) promotes neuron formation only
- (B) promotes astrocyte formation and inhibits neuron formation
- (C) inhibits stem cells to form neural progenitor cells
- (D) inhibits astrocyte formation only

**51. Which one of the following enzymes can alter the linking number of covalently closed circular form of DNA?**

- (A) Primase
- (B) DNA polymerase
- (C) Ligase
- (D) Gyrase

**52. The term carcinoma is applicable to malignant growth of:**

- (A) bone tissues
- (B) muscle tissues
- (C) bone marrow cells
- (D) epithelial tissues

**53. Pseudo-metameric segmentation is a feature of one of the following:**

- (A) Cestoda
- (B) Nematoda
- (C) Trematoda
- (D) Ectoprocta

**54. Microtubules are composed of:**

- (A) Desmin
- (B) Actin and Myosin
- (C) Tubulin
- (D) Flagellin

**55. The grafting experiment of Hammerling established the role of nucleus in heredity. The experimental material used in this experiment was:**

- (A) Scenedesmus
- (B) Acetabularia
- (C) Chlorella
- (D) Chara

**56. Monooxygenases that catalyse the additions of -OH during steroid biosynthesis and drug detoxifications are present in:**

- (A) Peroxisomes
- (B) Smooth endoplasmic reticulum
- (C) Golgi complex
- (D) Rough endoplasmic reticulum

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**57. Arenicola and Amphitrite are :**

- (A) "Missing link" between annelids and arthropods
- (B) Sedentary tube-dwelling polychaetes
- (C) Benthic trilobites
- (D) Planktonic trilobites

**58. Thanatophoric dysplasia, in which growth plates of ribs and limbs fail to proliferate leading to of baby soon after its birth is due to mutations in..... - Pathway.**

- (A) RTK
- (B) JAK-STAT
- (C)
- (D) Wntog

**59. Heterocyst from cyanobacteria contains enzyme:**

- (A) Pectinase
- (B) Cellulase
- (C) Nitrogenase
- (D) Phosphorylase

**60. Which hormone is involved in counteracting apical dominance induced by auxin ?**

- (A) Cytokinin
- (B) Ethylene
- (C) ABA
- (D) Brassinosteroids

**61. You are looking at a specimen with a compound microscope. The ocular lens has a magnification of 8X and the objective lens has a magnification of 2X. What is the total magnification?**

- (A) 2X
- (B) 8X
- (C) 10X
- (D) 16X

**62. Which of the following is true for enzyme catalyzed reactions?**

- (A)  $K_m$  is affinity constant
- (B)  $V_{max}$  can never be achieved
- (C)  $K_m = \frac{1}{2} V_{max}$
- (D)  $K_m = V_{max}$

**63. Which of the following statements about monosaccharides is correct?**

**P- Epimers of monosaccharides differ in chemical properties.**

**Q- In aldoses,  $C_1$  is the anomeric carbon.**

**R- Anomers differ in configuration at the glycosidic carbon.**

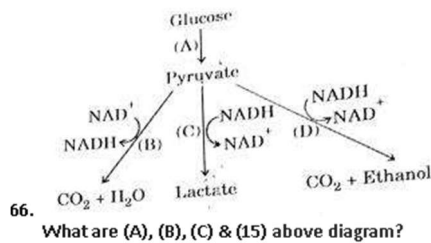
- (A) R and S differ in configuration at any carbon other than glycosidic carbon.
- (B) P and Q
- (C) Q, R and S
- (D) P, Q, R and S

64. If a naive T cell recognizes an antigen-MHC complex on an appropriate antigen-presenting cell or target cell, it will be activated, initiating:

- (A) a primary response
- (B) a secondary response
- (C) a prophylactic response
- (D) degranulation of mast cells

65. A Ramchandran plot describes, for a particular amino acid in a polypeptide chain, sterically allowed angles for:

- (A) C -C and C -CB bonds
- (B) C -C and C -N bonds
- (C) C -C and C -H bonds
- (D) C -N and C -H bonds



- (A) Glycolysis, TCA cycle, homolactic fermentation and alcoholic fermentation
- (B) Glycolysis, TCA cycle, alcoholic fermentation and homolactic fermentation
- (C) Glycolysis, homolactic fermentation, TCA cycle and alcoholic

67. Various atoms of pyrimidine ring are derived from :

- (D) Glycolysis, alcoholic fermentation, homolactic fermentation and TCA cycle



- (A) N1, C4, C5, C6-Aspartate, C2- Bicarbonate and N3- Glutamine
- (B) N1, C4, C5, C6-Glutamine, C2- Bicarbonate and N3- Aspartate
- (C) N1, C4, C5, C6-Aspartate, C2- Bicarbonate and N3- Glutamine
- (D) Asparagine, C2- Bicarbonate and N3- Glutamine

68. Lac repressor is an example of:

- (A) Helix loop helix
- (B) Helix turn helix
- (C) C<sub>2</sub> C<sub>2</sub> zinc finger
- (D) C<sub>2</sub>H<sub>2</sub>, zinc finger

**69. Of the following which is not involved in steady state regulation of hematopoiesis ?**

- (A) Control of the levels and types of cytokines produced by stromal cells in bone marrow
- (B) Production of cytokines with hematopoietic activity by cells such as activated T cells and macrophages
- (C) Removal of some cells by the controlled induction of cell death
- (D) Mesangial cells,

**70. The evolution of tetrapods marks their origin from:**

- (A) Actinopterygians
- (B) Chondropterygians'
- (C) Sarcopterygians
- (D) Holocephalians

**71. is/are the only non-protein component/s of the electro transport system**

- (A) Cytochromes
- (B) NAD and FAD
- (C) Fe-S center
- (D) Coenzyme-Q

**72. During the evolution of life, the first formed cells were**

- (A) Photoautotrophs
- (B) Saprotrophs
- (C) Chemoautotrophs
- (D) Chemoheterotrophs

**73. In every cycle of its activity, at the expense of one ATP molecule, one Na-K ATPase :**

- (A) extrudes  $1\text{Na}^+$  and takes in  $3\text{K}^+$
- (B) extrudes  $3\text{Na}^+$  and takes in  $2\text{K}^+$
- (C) extrudes  $3\text{K}^+$  and takes in  $3\text{Na}^+$
- (D) extrudes  $1\text{Na}^+$  and takes in  $1\text{K}^+$

**74. During the evolution of life, the first formed photosynthetic organisms were:**

- (A) algae
- (B) cyanobacteria
- (C) mycoplasmas
- (D) bryophytes

**75. A phenomenon in which animals adapted to temperate regions have shorter and poorly developed ears, eyes, hair and other phenotypic traits follow:**

- (A) Bergmann's law
- (B) Cope's law
- (C) Allen's law
- (D) Dollo's law

- 76. If one wishes to determine the variation in the body size of frogs from four different populations, the appropriate test statistics would be:**
- (A) Student t-test
  - (B) Chi-square
  - (C) Regression analysis
  - (D) F-test
- 77. Which one of the following is not a characteristic of competitive inhibition of an enzyme?**
- (A) It results in increase of  $K_m$
  - (B) There is no change in  $k_m$
  - (C) The inhibitor binds to active site of enzyme
  - (D) It can be relieved by increasing the concentration of substrate
- 78. Sampling of a gene pool occurs in sexual reproduction because :**
- (A) not all gametes form zygotes
  - (B) not all of the alleles find their way into gametes
  - (C) meiosis does not produce perfect copies of the parental genotype
  - (D) recombination causes genes to be shuffled
- 79. State, whether the following two statements (I and II), are true or false :**
- (I) A reaction is said to be spontaneous when it can proceed in either the forward or reverse direction. A spontaneous process can occur with a large decrease in entropy.**
- (A) I = False and II = False
  - (B) I = True and II = False
  - (C) I = False and II = True
  - (D) I = True and II = True
- 80. Exo-erythrocytic schizogony in the life cycle of malarial parasite Plasmodium occurs in :**
- (A) Red blood cells
  - (B) Liver
  - (C) Blood
  - (D) Mosquito stomach
- 81. Two zoogeographical regions, separated by high mountain ranges are :**
- (A) Palaearctic and Oriental
  - (B) Neotropical and Ethiopian
  - (C) Nearctic and Palaearctic
  - (D) Oriental and Australian
- 82. Members of all the following genera of bacteria are typically found in a maturing Winogradsky column except:**
- (A) Clostridium
  - (B) Rhodospirillum
  - (C) Desulfovibrio
  - (D) Escherichia

- 83. Calculate the pI value of aspartic acid from the given pK values. (Given :  $pK_1 = 1.99$ ,  $pK_2 = 9.90$  and  $pK_R = 3.90$ )**
- (A) 2.945
  - (B) 5.945
  - (C) 6.9
  - (D) 7.895
- 84. This type of enzyme regulation is irreversible in nature :**
- (A) Allosteric regulation
  - (B) Regulation by covalent modification
  - (C) Zymogen activation
  - (D) cAMP mediated regulation
- 85. Stringent response in bacteria leads to accumulation of these unusual nucleotides :**
- (A) pGpp and pGppp
  - (B) ppGpp and pppGpp
  - (C) pppGp and ppGp
  - (D) CGMP and CAMP
- 86. With passage of time, the molecular distance between organisms increases during evolution due to :**
- (A) Random drift
  - (B) Genetic drift
  - (C) Neutral mutations
  - (D) Point mutations
- 87. Ernst Myer was a proponent of:**
- (A) Phylogenetic species concept
  - (B) Biological species concept
  - (C) Recognition species concept
  - (D) Evolutionary species concept
- 88. How many peptide fragments will be generated by the action of cyanogens bromide (CNBr) on the oligopeptide of the following sequence?**  
**Gly-Ala-His-Arg—Asp-Met-**  
**Cys-Lys-Val-Leu**
- (A) 1
  - (B) 2
  - (C) 3
  - (D) 4
- 89. Alien species experience. When introduced to a new ecosystem.**
- (A) extinction
  - (B) exponential growth
  - (C) Secondary succession
  - (D) character displacement



- 90. Which of the following enzymes is only involved in gluconeogenesis pathway?**
- (A) Hexokinase
  - (B) Phosphofructokinase
  - (C) 3-phosphoglycerate kinase
  - (D) Pyruvate kinase
- 91. The ability of a site to control adjacent genes in DNA sequence irrespective of the presence of the alleles is called as :**
- (A) Overlapping site
  - (B) Cis acting site
  - (C) Trans acting site
  - (D) Cis-trans acting site
- 92. Biome is**
- (A) The fauna of a terrestrial ecosystem
  - (B) The flora of an ecosystem
  - (C) Communities of organisms in an ecosystem interacting with each other
  - (D) A part of the earth along with its atmosphere inhabited by living organisms
- 93. The root mean square deviation is commonly known as:**
- (A) Variance
  - (B) Standard deviation
  - (C) Mean deviation
  - (D) Quartile deviation
- 94. Legionella sp. multiply intra- cellularly within ....., just as they do within human monocytes and macrophages.**
- (A) amoeba
  - (B) bacteria
  - (C) fungi
  - (D) plants
- 95. The Redfield ratio is an index of concentration of**
- (A) Carbon, hydrogen, oxygen
  - (B) Nitrogen, potassium, iron
  - (C) Carbon, nitrogen, sulfur
  - (D) Carbon, nitrogen, phosphorus
- 96. Transplantation of stem cell populations from genetically identical donor to recipient is said to be :**
- (A) Autologous
  - (B) Syngeneic -
  - (C) Allogeneic
  - (D) Xenogeneic

97. The procapsid is assembled with the aid of..... proteins.
- (A) Ladder
  - (B) Framing
  - (C) Scaffoldin  
g
  - (D) Form
98. Arabidopsis plants have 10 chromosomes (5 pairs) in their somatic cells. How many chromosomes are present in each of the following?
- egg cell nucleus in the female gametophyte
  - generative cell nucleus in a pollen grain
  - endosperm nucleus
  - fertilized egg nucleus
- (A) 5, 5, 15,  
10
  - (B) 5, 5, 10,  
15
  - (C) 15, 10, 5,
99. Vegetable seeds purchased from the market germinate when exposed to light with wavelength 660 nm. When followed by a brief exposure to 730 nm they fail to germinate and will germinate when given an exposure of 660 nm. So we can conclude:
- (A) Exposure to 660 nm converts Pr Pfr
  - (B) Exposure to 730 nm converts Pr Pfr
  - (C) Germination is influenced by red light
  - (D) Germination is not influenced by red
100. In Gymnosperms the wood is of two types namely:
- (A) Manoxylic and homoxylic
  - (B) Pycnoxylic and homoxylic
  - (C) Manoxylic and Pycnoxylic
  - (D) Manoxylic and Polyxylic

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**ANSWER KEY**

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