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FDA – Key Answers

1. Variations in the length of daytime and night time from season to season are due to _____

- (1) the earth's revolution round the sun in an elliptical manner.
- (2) latitudinal position of the place.
- (3) revolution of the earth on a tilted axis.
- (4) the earth's rotation on its axis.

2. Which of the following are famous for traditional sarees/fabrics?

- A. Raipur
- B. Molkalmur
- C. Kancheepuram
- D. Amaravati

Select the correct answer using the options given below :

- (1) B and C only
- (2) A, B and C
- (3) A, C and D
- (4) A and B only

3. Which of the following statement is not correct with regard to the continental shelf?

- (1) They are highly sedimented
- (2) They have abrupt falls towards the continental slopes.
- (3) They are rich fishing areas
- (4) Shelves are absent close to plate boundaries

4. Turkey is located between

- (1) Black Sea and Mediterranean Sea.
- (2) Gulf of Suez and Mediterranean Sea.
- (3) Gulf of Aqaba and Dead Sea.
- (4) Black Sea and Caspian Sea.

5. Which one of the following pairs of continents is separated from each other by the 'Panama Canal'?

- (1) Europe and Africa
- (2) Asia and Europe
- (3) North America and South America
- (4) Asia and Australia

6. Which one among the following plains is associated with Limestone topography ?

- (1) Alluvial plain
- (2) Karst plain
- (3) Foothills plain
- (4) Bajada plain

7. Consider following statements :

Statement I : All the energy received by the earth is from the sun through electromagnetic radiation.

Statement II : The earth also radiates back all the received energy through various ways to maintain the heat budget of the planet.

Choose the correct answer using the options given below :

- (1) Both the statements are individually true but statement II is not the correct explanation of statement I.
- (2) Statement I is true but statement II is false.
- (3) Statement I is false but statement II is true.
- (4) Both the statements are individually true and statement II is the correct explanation of statement I.

8. Regur soil is most suitable for cultivation of _____.

- (1) Cotton
- (2) Tobacco
- (3) Sugarcane
- (4) Groundnut

9. Match the following :

National Parks and Wildlife Sanctuaries	States
---	--------

- | | |
|-------------------|---------------------|
| A. Kanha | i. Assam |
| B. Kaziranga | ii. Uttar Pradesh |
| C. Nagarhole | iii. Madhya Pradesh |
| D. Chandra Prabha | iv. Karnataka |

Select the correct answer using the codes given below :

Codes :

- | | A | B | C | D |
|-----|-----|-----|-----|----|
| (1) | iii | iv | ii | i |
| (2) | iii | i | iv | ii |
| (3) | ii | iii | iv | i |
| (4) | i | ii | iii | iv |

10. The mean distance between the earth and sun is called

(1) Astronomical Unit

(2) Light year

(3) Angstrom

(4) Parsec

11. 'Project Elephant' was started in the year

(1) 1993-94

(2) 1994-95

(3) 1995-96

(4) 1991-92

12. Which of the following 'Tiger Reserve' and State is correctly matched?

(1) Periyar – Tamilnadu

(2) Jim-Corbett – Uttarakhand

(3) Bhadra – Andhra Pradesh

(4) Ranthambore – Haryana

13. In order to double the period of a simple Pendulum, the length of the thread should be _____.

(1) halved

(2) doubled

(3) quadrupled

(4) None of these

14. What is the principle of optical fibre communication?

(1) Population Inversion

(2) Total Internal Reflection

(3) Doppler effect

(4) Frequency Modulation

15. On a rainy day, small oil films on a water shows brilliant colour. This is due to _____.

(1) Interference

(2) Diffraction

(3) Polarization

(4) Dispersion

16. Which law explains the periodic motion of planets ?

(1) Kepler's 3rd law

(2) Kepler's 1st law

(3) Newton's 3rd law

(4) Kepler's 2nd law

17. During Cyclones the roofs are blown off due to _____.

(1) low velocity over the roof and low pressure on the roof

(2) low velocity over the roof and high pressure on the roof

(3) high velocity over the roof and high pressure on the roof

(4) high velocity over the roof and low pressure on the roof

18. Which of the following is the most elastic material ?

(1) Glass

(2) Steel

(3) Clay

(4) Rubber

19. Milk is

(1) an emulsion

(2) a gel

(3) a solid sol

(4) a sol

20. Which of the following processes is used in the manufacture of tyres ?

(1) Leaching

(2) Dialysis

(3) Vulcanisation

(4) Electrophoresis

21. Elphinstone was the Governor of _____.

(1) Madras

(2) Pondicherry

(3) Bengal

(4) Bombay

22. The Electrical conductivity in metals is due to

(1) Free electrons in metals

(2) Nucleons in nucleus

(3) Molecular vibrations

(4) None of these

23. Which of the following fertilizer contains highest percentage of nitrogen ?

(1) Urea

(2) Calcium nitrate

(3) Ammonium sulphate

(4) Ammonium nitrate

24. The protein present in cartilage is

(1) Myosin

(2) Collagen

(3) Keratin

(4) Haemoglobin

25. Which of the following is the most commonly used chemical for ripening of mangoes in India ?

(1) Silver Iodide

(2) Calcium Carbide

(3) Ammonium Nitrate

(4) Potassium Iodide

26. Which of the following is a Bryophyte ?

(1) Reindeer moss

(2) Irish moss

(3) Bog moss

(4) Club moss

27. Gymnosperms lack fruit because they lack

(1) Ovary

(2) Embryo

(3) Seed

(4) Ovule

28. Which of the following is known as "Pond Silk" ?

(1) Spirogyra

(2) Nostoc

(3) Anabaena

(4) Ulothrix

29. Aflatoxins are produced by

(1) Bacterium

(2) Fungi

(3) Nematodes

(4) Virus



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30. Which of the following sugar is found in nucleic acid ?

- (1) Glucose
- (2) Deoxyribose
- (3) Levulose
- (4) Dextrose

31. 'The Deccan Sabha' was organized by _____.

- (1) P. Ramaswamy
- (2) Gopal Krishna Gokhale
- (3) Pattabhi Sitaramayya
- (4) Bal Gangadhar Tilak

32. To obtain virus free plants, which of the following technique is preferred ?

- (1) Shoot tip culture
- (2) Root tip culture
- (3) Grafting
- (4) Micro propagation

33. Iodine deficiency in human leads to

- (1) Kidney stone
- (2) Cirrhosis
- (3) Goitre
- (4) Asthma

34. Animal cells are interconnected with

- (1) Cell wall
- (2) Desmosomes
- (3) Plasmodesmata
- (4) Plasma membrane

35. Curdling of milk in the stomach is due to the action of

- (1) Pepsin
- (2) Rennin
- (3) HCl
- (4) All of these

36. Barakah nuclear power plant is located in _____.

- (1) United Arab Emirates
- (2) Iraq
- (3) Iran
- (4) Japan

37. Penicillin prevents bacterial growth by

- (1) Inhibiting cell wall synthesis
- (2) Attacking cell membrane
- (3) Damaging DNA
- (4) Inhibiting protein synthesis

38. Which of the following protein was sequenced by Frederick Sanger ?

- (1) Myoglobin
- (2) Haemoglobin
- (3) Insulin
- (4) Myosin

39. In humans, Alzheimer's disease is linked with deficiency of

- (1) Dopamine
- (2) Glutamic acid
- (3) Gamma Amino Butyric acid
- (4) Acetylcholine

40. All anti-inflammatory agents relieve pain and fever by reducing the production of

- (1) Leukotrienes
- (2) Thromboxanes
- (3) Proteoglycans
- (4) Prostaglandins

41. The polarity of water molecule is due to

- (1) The readily ionising behaviour of water
- (2) The positive charge of water molecule
- (3) The negative charge of water molecule
- (4) Difference in electro negativity of oxygen and hydrogen atoms in water

42. During an overnight fast, the major source of blood glucose is

- (1) Hepatic glycogenolysis
- (2) Gluconeogenesis
- (3) Muscle glycogenolysis
- (4) Dietary glucose from the intestine

43. Which component is used to adulterate turmeric powder ?

- (1) Calcium phosphate
- (2) Potassium dichromate
- (3) Lead phosphate
- (4) Lead chromate

44. Synthesis of DNA is also known as

- (1) Replication
- (2) Transcription
- (3) Translation
- (4) Duplication

45. Melting temperature of DNA is the temperature at which

- (1) Liquid DNA evaporates
- (2) DNA changes from double helix into supercoiled DNA
- (3) Native double helical DNA is denatured
- (4) Solid DNA becomes liquid

46. The term "Maximum Allowable Post-manufacturing Expenses" (MAPE), frequently seen in the news, is used in which context ?

- (1) Pharmaceutical Policy
- (2) Automobile Industries
- (3) Data Centres
- (4) Agro-process Industries

47. Which hormone is detected in urine for pregnancy test ?

- (1) Testosterone
- (2) Human chorionic gonadotropin
- (3) Oxytocin
- (4) Insulin

48. Sustainable Action for Transforming Human capital (SATH) program was launched by

- (1) NITI Aayog
- (2) Ministry of Human Resource Development
- (3) World Bank and Ministry of Human Resource Development
- (4) None of these

49. The Financial Stability Report is released by the Reserve Bank of India

- (1) Twice in a year
- (2) Once in every month
- (3) Once in a quarter
- (4) Once in a year

50. The Global Risks Report 2021 was released by

- (1) International Monetary Fund
- (2) World Trade Organisation
- (3) World Economic Forum
- (4) World Bank

51. The sector which attracts the highest FDI equity inflows in India is

- (1) Hotel and Tourism
- (2) Drugs and Pharmaceuticals
- (3) Services
- (4) Telecommunications

52. "Pradhan Mantri Vaya Vandana Yojana" (PMVVY) for senior citizens is offered by _____.

- (1) United India Insurance Company
- (2) Bajaj Allianz Life Insurance Company
- (3) Life Insurance Corporation of India
- (4) General Insurance Company

53. United Nations Investment Promotion Award, 2020 was given to

- (1) Invest India
- (2) Make in India
- (3) India Trade Promotion Organisation
- (4) None of these

54. Project Kirana aims to

- (1) Enable retail sellers
- (2) Enable women entrepreneurs
- (3) Enable farmers
- (4) None of these



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55. The Banking Regulation Amendment Bill, 2020 passed by the Parliament is not applicable to

- (1) Primary Agricultural Credit Societies.
- (2) Co-operative Society whose primary object and principal business is providing of long-term finance for agricultural development.

(3) Both (1) and (2)

(4) None of these

56. Which one of the following elements occurs most abundantly in our universe ?

- (1) Nitrogen
- (2) Helium
- (3) Oxygen

(4) Hydrogen

57. Which state has recently launched a digital literacy programme titled "I am also Digital" ?

(1) Kerala

(2) Karnataka

(3) Tamil Nadu

(4) Odisha

58. "Utkarsh 2022", seen in news recently refers to

(1) A medium-term strategy framework of RBI for evolving macro-economic environment in the country

(2) A Railways project to develop rakes as part of upgradation of its mail/express trains

(3) NITI Aayog's strategy to build a New India by 2022

(4) A roadmap to double farmers' income by 2022

59. With reference to Attorney General of India, which of the following statements are correct ?

- A. Argues issue related to Indian Government only in Supreme Court
- B. Argues issue related to Indian Government both in Supreme Court and High Court
- C. He/she can attend any Court in India
- D. He/she can be a legal advisor for full time

- (1) B, C & D
- (2) A & B only
- (3) A, B & C only
- (4) A, B, C & D

60. Match List-I with List-II and select the correct answers using the codes given below the lists.

List-I	List-II
A. Shifting cultivation	i. Pygmies
B. Pastoralism	ii. Eskimos
C. Hunters and food gatherers	iii. Kirghiz
D. Hunters	iv. Rengmas

Codes :

- | | | | | |
|-----|----|-----|-----|----|
| | A | B | C | D |
| (1) | i | iii | ii | iv |
| (2) | iv | i | iii | ii |
| (3) | iv | iii | i | ii |
| (4) | i | ii | iii | iv |

61. Aspartane which is more sweeter than sucrose is

- (1) a monosaccharide
- (2) a amino acid
- (3) a dipeptide
- (4) a disaccharide

62. Polypeptides are linear polymers made up of

- (1) Sugars
- (2) Amino acids
- (3) Nucleotides
- (4) Fatty acids

63. The major atmospheric by product of photosynthesis is

- (1) Water
- (2) Carbon dioxide
- (3) Oxygen
- (4) Nitrogen

64. _____ hormone regulates water level in the human body.
- (1) ADH
- (2) FSH
- (3) Epinephrine
- (4) ACTH
65. The "CHAMPIONS" portal was launched by the Prime Minister for resolving the grievances of ____.
- (1) Agriculture Sector
- (2) Micro Small and Medium (MSME) Sector
- (3) Education Sector
- (4) Health Care Sector
66. Which of the following is the longest express way in India ?
- (1) Agra-Lucknow Express way
- (2) Himalayan Express way
- (3) Delhi – Meerut Express way
- (4) Yamuna Express way
67. Which Indian journalist has been chosen as the recipient of 2019-20 PEN Gauri Lankesh Award ?
- (1) Yusuf Jameel
- (2) N. Ram
- (3) Prannoy Roy
- (4) Ravish Kumar
68. Polishing of rice and repeated washing of rice removes the vitamin
- (1) Riboflavin
- (2) Niacin
- (3) Biotin
- (4) Thiamine
69. 'Atal tunnel' is a highway tunnel, which is built under the ____.
- (1) Rohtang La pass
- (2) Zoji La pass
- (3) Nathu La pass
- (4) Khardung La pass

70. Buddhism gave more importance to _____ life.

- (1) Rural
- (2) Cosmopolitan
- (3) Forest
- (4) Urban

71. Which one of the following items did not constitute the Roman export to India ?

- (1) Dry-fruits
- (2) Arretine ware
- (3) Gold and Silver coins
- (4) Wine-Amphorae

72. Rancidity of oils and fats is caused by _____.

- (1) Hydrolysis of triglycerides
- (2) Oxidation of unsaturated glycerides
- (3) Both (1) and (2)
- (4) None of these

73. Jaroka-i-Darshan was the brain child of

- (1) Jahangir
- (2) Akbar
- (3) Aurangzeb
- (4) Babur

74. After Kabir's death, his tomb was built in

- (1) Gorakhpur
- (2) Maghar
- (3) Basti
- (4) Varanasi

75. An example of amino acid containing benzene ring is _____.

- (1) Alanine
- (2) Lysine
- (3) Serine
- (4) Tyrosine

76. _____ was appointed as judge by Mohammad Bin Tughlaq.

- (1) Ibn Battuta
- (2) Al Istakhri
- (3) Al Masudi
- (4) Marco Polo

77. Who declared his motto as "No religion, no caste and no God for mankind" ?

- (1) Ramaswamy Naiker
- (2) Jyotiba Phule
- (3) Shadaran Ayyappan
- (4) Shri Narayana Guru

78. The famous work 'Vijayanagara: The Origin of the City and the Empire' was written by

- (1) Aiyangar S.K.
- (2) Venkataratnam A.V.
- (3) Burton Stain
- (4) Venkataramanayya N.

79. Where did Britishers open their first factory in Eastern India ?

- (1) Bihar
- (2) Orissa
- (3) Assam
- (4) Bengal

80. Chemical name of Dettol is _____

- (1) Sulphanilamide
- (2) Ortho-hydroxy benzoic acid
- (3) Chloroxylonol
- (4) Dilute solution of phenol

81. Who was the British Governor General during fourth Anglo-Mysore War ?

- (1) Lord Cornwallis
- (2) Lord Wellesley
- (3) Lord Dalhousie
- (4) Lord Warren Hastings



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82. Match List-I with List-II and select the correct answer using the codes given below :

List-I

List-II

- | | |
|---|-----------------------------|
| A. Praja
Pratinidhi
Sabha | i. Sir M.
Vishweshwaraya |
| B. Mysore Civil
Service exam | ii. K. Seshadri Iyer |
| C. Cement and
Paper Factory
in Bhadravati | iii. Rangacharlu |
| D. Govt. Soap
Factory in
Bengaluru | iv. Mirza Ismail |

Codes :

A B C D

(1) iii ii iv i

(2) iv i iii ii

(3) iv i ii iii

(4) iii ii i iv

83. Who among the following was called 'The Queen of Pepper' by the Portuguese ?

(1) Rani Channabhyradevi

(2) Rani Rudramadevi

(3) Rani Channamma

(4) Rani Abbakka

84. Match the List-I and List-II and select the correct answer by using the codes given below :

List-I

List-II

Ocean

Deepest trench

- | | |
|------------------------------|---------------------------|
| A. North
Pacific
Ocean | i. Tonga |
| B. Atlantic
Ocean | ii. Java trench |
| C. Indian
Ocean | iii. Mariana trench |
| D. South
Pacific | iv. Puerto Rico
trench |

Codes :

A B C D

(1) ii i iv iii

(2) iii iv ii i

(3) iv iii i ii

(4) i ii iii iv

85. Which among the following is incorrect about Chandragupta I ?

(1) The Guptas were possibly vaisyas and hence marrying in Kshatriya family gave them prestige.

(2) He started Gupta era in 319-320 CE.

(3) He had the title 'Vikramaditya'.

(4) He married a Lichchhavi princess from Nepal.

86. Arrange the following Indian States who have signed subsidiary alliance in chronological order :

A. Marathas

B. Hyderabad

C. Awadh

D. Mysore

(1) B D C A

(2) B D A C

(3) A B C D

(4) D C A B

87. Who among the following is not a member of the Council of Ministers or a member of Parliament, but has right to speak in house of parliament or any Parliamentary Committee ?

(1) Chairman of the UPSC

(2) Attorney General of India

(3) Chief Justice of India

(4) Governor of RBI

88. Nicotine present in tobacco is a/an

(1) Terpene

(2) Steroid

(3) Protein

(4) Alkaloid

89. The method of Impeachment of the President of India is adopted from

(1) Britain

(2) USA (United States of America)

(3) Canada

(4) France

90. The idea of a Constituent Assembly was first conceived by

(1) M.N. Roy in 1934

(2) Congress Party in 1936

(3) Mahatma Gandhi in 1922

(4) J.L. Nehru in 1938

91. Who is the Chairman of the National Development Council ?

(1) President

(2) Vice-President

(3) Prime Minister

(4) Governor

92. 'Political Equality' means.

(1) Every citizen should be given a chance to work in the government turn by turn.

(2) Every citizen should be a member of any political party.

(3) Every citizen should be given right to vote and contest elections.

(4) Every citizen should be given political education.

93. In Parliamentary system, there are _____ Executives.

(1) Nominal and Real

(2) Single

(3) Plural

(4) Nominal

94. Who supervises all the Subordinate Courts in a State ?

(1) Supreme Court

(2) High Court

(3) Governor

(4) Law Minister

95. How much time the Constituent Assembly took to prepare the Constitution of India ?

(1) 2 years 11 months 18 days

(2) 4 years 11 months 12 days

(3) 2 years 10 months 12 days

(4) 3 years 11 months 18 days

96. Ambassadors are appointed by the

(1) The President of India

(2) The Prime Minister

(3) Cabinet

(4) External affairs Minister

97. Which one of the following pairs is correctly matched ?

- (1) Amaravati : Telangana
- (2) Bikaner : Gujarat
- (3) Darjeeling : Uttarakhand
- (4) Yanam : Puducherry

98. The Narmada river flows to the west, while most other large peninsular rivers flow to the east. Why ?

- A. It flows through a linear rift valley.
- B. It flows between Satpuras and Ajanta.
- C. The land slopes to the south

Select the correct answer using the codes given below :

- (1) A only
- (2) B and C
- (3) A and C
- (4) None of these

99. Which was the work written by Hasan Nizami ?

- (1) Tarikh-I-Bayhaqi
- (2) Tarikh-I-Masudi
- (3) Tarikh-I-Firoz Shahi

(4) Tajul-Ma'asir

100. The seasonal reversal of winds is the typical characteristic of _____.

- (1) Equatorial climate
- (2) Mediterranean climate
- (3) Monsoon climate
- (4) All of these



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