DEECET-2019

BIOLOGICAL SCIENCE – EM

1. World class Educationist among the following
    1. Maulana Abul Kalam Azad
    2. Rabindranath Tagore
    3. A.P.J. Abdul Kalam
    4. Dr. Sarvepalli Radha Krishnan

2. The purpose of examination is
    1. to award grade
    2. to encourage
    3. to know the pupil’s progress
    4. to announce results

3. The year in which Right to Education Act was implemented
    1. 2008
    2. 2009
    3. 2010
    4. 2011

4. This subject must be learnt through learning by doing principle
    1. Telugu
    2. Science
    3. Mathematics
    4. Social

5. Diploma in Elementary Education qualified persons are eligible to handle classes

    1. 1^{st} to 8^{th}
    2. 1^{st} to 5^{th}
    3. 6^{th} to 8^{th}
    4. 6^{th} to 10^{th}

6. Prominent Surgeon during the Gupta period

    1. Sudraka
    2. Susrutha
    3. Shaunika
    4. Soumilla

7. The three main styles of Indian temple architecture are

    1. Dravida, Nagara and Vesara
    2. Tribhanga, Chaitya and Vihar
    3. Bhanga, Abhanga and Atibhanga
    4. Alap, Dhrupad and Lokayata

8. Gomateswara Statue at Sravana Belagola was built by

    1. Kalala Devi
    2. Bhagawan Bahubali
    3. Chandragupta Maurya
    4. Chamundaraya

9. The correct form of VVPAT

   1. Voter Verifiable Poll Audit Trial
   2. Voter Variable Paper Audit Trial
   3. Voter Verifiable Paper Audit Trial
   4. Voter Verifying Paper Account Trial

10. The new President of Pakistan

   1. Dr. Arif Alwi
   2. Imran Khan
   3. Yahya Khan
   4. Zia-ul-Huq

11. He practiced vigorously for the competition.

   'Vigorously' in the above context means.

   1. hardly
   2. strenuously
   3. feeble
   4. unanimatedly

12. Keerthana was born _____ December 2, 2001.

   Choose the correct preposition that fits the context.

   1. by
   2. at
   3. in
   4. on

13. The following is an example of a simile.

    1. eat like a bird
    2. I like coffee.
    3. likes and dislikes
    4. like-minded

14. Choose the sentence in which the word ‘bright’ is used in the meaning of ‘welcoming’.

    1. I like bright colours.
    2. She gave me a bright smile.
    3. Sindhu is a bright student.
    4. We took rest in a bright room.

15. Choose the word that indicates a negative attitude.

    1. sensitive
    2. over powering
    3. sharp
    4. humble

16. తెలుగు సాహిత్యంలో “ఆదికవి” గా ప్రసిద్ధి చెందినది

    1. నన్నయ
    2. తిక్కన
    3. ఎఱ్ఱన
    4. మారన

17. “సంకేతం” ఈ పదానికి పర్యాయపదాలు

    1. యుద్ధం, సమరం
    2. గుర్తు, చిహ్నం
    3. గౌరవం, గుర్తు
    4. సూచన, గౌరవం

18. “స్నేహం” – ఈ పదానికి వికృతి

    1. చెలిమి
    2. సఖ్యము
    3. నెయ్యము
    4. నాయము

19. “బాధ వలన దుఃఖం వస్తుంది.” ఈ వాక్యంలో ‘వలన’ అనేది ఈ విభక్తి ప్రత్యయం

    1. సప్తమీ
    2. షష్ఠీ
    3. పంచమీ
    4. చతుర్థీ

20. “జలధరము” – ఈ సమాస పదానికి సరైన విగ్రహవాక్యం గుర్తించండి.

    1. జలము కొరకు ధరము
    2. జలము వలన ధరము
    3. జలము చేత ధరించునది
    4. జలమును ధరించునది

21. May my animals, birds and insects live in peace and harmony!

The above sentence indicates…..

1. an offer by someone
2. an order to somebody
3. a wish of someone
4. a suggestion by animals and birds

22. Choose the sentence that has the word ‘secret’ as an adjective.

1. He tried to keep it secret from his family.
2. He made no secret of his ambition.
3. I don’t know the secret of success.
4. What is her secret ?

23. I wish I had a car.

This sentence means.

1. I am sorry I have no car.
2. I am lucky to have a car.
3. As I am rich, I can buy a car.
4. I want to buy a car now.

24. Mohan and Raju ended their quarrel and became friends.

Choose the idiom that indicates the meaning of the above sentence.

1. once in a blue moon
2. bury the hatchet
3. make both ends meet
4. burn the midnight oil

25. Delhi is too expensive.

In the above sentence, the word ‘too’ is

1. a preposition
2. an adjective
3. an adverb
4. a conjunction

26. Choose the word which means ‘continuous short sounds’.

1. twitter
2. shriek
3. wail
4. roar

27. I also possessed one solitary black coat.

In the above sentence, the word, ‘solitary’ stands for.

1. unique
2. single
3. expensive
4. very large

28. Choose the wrong collocation regarding ‘warm’.

1. warm welcome
2. warm reception
3. warm congratulations
4. warm opinion

29. On the whole, I had a happy childhood.

In the above sentence, the purpose of ‘On the whole’ is …….

1. to give an example
2. to add something
3. to generalise
4. to contradict something

30. Madhu got a good job _____ his own abilities and skills.

Choose the prepositional phrase that fits the blank.

1. instead of
2. by means of
3. in spite of
4. ahead of

31. A man sold two T.V's for 6000/- each and gaining of 20% on one and losing 20% on the other. Find his gain or loss percentage on the whole transaction _____

1. Profit 4%
2. Loss 4%
3. Profit 5%
4. No profit no gain

32. If $\frac{x}{y}=\frac{12}{7}$ then the value of $\frac{x-y}{x+y}+\frac{14}{19}$ is _____

1. $\frac{13}{19}$
2. $\frac{15}{19}$
3. 1
4. $1\frac{1}{19}$

33. If the length of one diagonal of a rhombus whose area 216 sq.cm is 24 cm. Then find the length of second diagonal.

1. 18 cm
2. 9 cm
3. 36 cm
4. 8 cm

34. Solve the equation $\frac{x+7}{5x+22}=\frac{1}{4}$

1. 5
2. 4
3. 7
4. 6

35. A vessel in the shape of a cuboid is 30 cm long and 25 cm wide. What should be its height to hold 9 liters of water ?

1. 12 cm
2. 6 cm
3. 24 cm
4. 18 cm

36. If the polynomials $2x^3 + ax^2 + 3x - 5$ and $x^3 + x^2 - 4x +$ a leave the same remainder when divided by $(x-2)$ then the value of 2a = _____

1. $\frac{-13}{3}$
2. $\frac{13}{3}$
3. $\frac{-26}{3}$
4. $\frac{26}{3}$

37. (cosec A – sin A) (sec A – cos A) = _____

1. 2 sin A cos A
2. sin A cos A
3. sin A + cos A
4. sin A – cos A

38. The centroid of the triangle formed by (7, 4) (4, –6) (–5, 2) is _____

1. (2, 3)
2. (2, –3)
3. (2, –1)
4. (2, 0)

39. A dice is thrown twice. What is the probability that 5 will come up at least once

1. $\frac{11}{36}$
2. $\frac{5}{36}$
3. $\frac{25}{36}$
4. $\frac{5}{6}$

40. If the sum of the first 14 terms of an A.P is 1050 and its first term is 10, find the 20^{th} term _____

    1. 100
    2. 200
    3. 210
    4. 190

41. Which of the following will show “Tyndall effect”

    1. Salt solution
    2. Potassium chloride solution
    3. Copper sulphate solution
    4. Starch Solution

42. Myopia can be corrected by using

    1. Convex lens
    2. Concave lens
    3. Plano convex lens
    4. Plano concave lens

43. Sodium bicarbonate is commonly known as

    1. Washing soda
    2. Soda water
    3. Baking soda
    4. Soda lime

44. In a bulb the part which gives us light is

1. Metal base
2. Glass chamber
3. Filament
4. Terminals

45. One of the following material is used for making shoe polish

1. Paraffin wax
2. Petrol
3. Diesel
4. Lubricant oil

46. “Micro organisms could be killed by boiling”. This was proved by

1. Lazzaro Spallanzani
2. Ronald Ross
3. Edward Jenner
4. Jonas Salk

47. ‘Haustoria’ are

1. Special roots developed by parasitic plants
2. Modified leaves of insectivorous plants
3. A kind of sea weeds
4. Umbrella shaped plants

48. Cotton cultivators are showing interest to cultivate B.T. Cotton variety. B.T. means

1. Bacteria tobacum
2. Bacillus tobacum
3. Bacteria tricoderma
4. Bacillus thuringiensis

49. The joint between the upper jaw and the rest of the head is

1. Hinge Joint
2. Fixed Joint
3. Pivot Joint
4. Ball and Socket Joint

50. This disease in human beings is linked with the islets of Langerhans

1. Heart attack
2. Cancer
3. Diarrhoea
4. Diabetes

51. Rain water streams checked by raising vegetation or constructing bunds to enhance ground water levels come under these development projects

1. Rock Land
2. Watershed
3. Tank Water
4. River Water

52. E.V. Ramasami is familiar as

1. Periyar
2. Mahatma
3. Bapu
4. Pundit

53. Tukaram and Ekanath are the saint poets of this region

1. Alahabad
2. Madras
3. Oudh
4. Maharashtra

54. Tanjavur Town was built by

1. Raja Raja
2. Rajendra
3. Vijayalaya
4. Kulottunga

55. Equinoxes occur on these days every year

1. March 21 and September 23
2. June 21 and December 22
3. March 22 and September 24
4. March 20 and September 22

56. Bhoodan Movement was started by

1. Achyutha Patwardhan
2. Jaya Prakash Narayan
3. Vinoba Bhave
4. V. Ramachandra Reddy

57. Founder of Young Italy

1. Victor Emanuel II
2. Giuseppe Mazzini
3. Otto Von Bismarck
4. Garibaldi

58. Expand the abbreviation B.P.O.

1. Business Procurement Organization
2. Business Productivity Outsourcing
3. Business Production Outsourcing
4. Business Processes Outsourcing

59. The first Coalition Government at the centre which assumed power for two consecutive terms

1. United Front (UF)
2. National Democratic Alliance (NDA)
3. United Progressive Alliance (UPA)
4. National Front (NF)

60. The number of persons per unit area is denoted by

1. Population gap
2. Population density
3. Population map
4. Population monitor

61. National Botanical Research Institute (NBRI) located at

1. Howrah
2. New Delhi
3. Lucknow
4. Bangalore

62. Cell wall lacking monerans are

1. Archaebacteria
2. Cyanobacteria
3. Mycoplasmas
4. Actinomycetes

63. Fucoxanthin is the chief pigment in

1. Chlorophyceae
2. Cyanophyceae
3. Rhodophyceae
4. Phaeophyceae

64. Elaters are seen in the sporophyte of

1. Marchantia
2. Funaria
3. Sphagnum
4. Polytrichum

65. The modified stem of *Casuarina* is called

1. Cladophyll
2. Phylloclade
3. Phyllode
4. Cladode

66. Select the incorrect pair

1. Marginal Placentation - Pea
2. Axial Placentation - Tomato
3. Parietal Placentation - Marigold
4. Free Central Placentation - *Dianthus*

67. The type of pollination occurs in cleistogamous flowers is

1. always cross pollination
2. always self pollination
3. both cross pollination and self pollination
4. depends upon availability of pollinators

68. The father of taxonomy is

1. Theophrastus
2. Carl Linnaeus
3. Charles Darwin
4. Gregor Mendel

69. Double membrane cell organelle(s) in plant cells is / are

1. Nucleus only
2. Nucleus and Chloroplast only
3. Nucleus and Mitochondrion only
4. Nucleus, Chloroplast and Mitochondrion

70. In dicot root lateral roots are initiated from

1. Endodermis
2. Pericycle
3. Epidermis
4. Medulla

71. Identify the process that doesn't occur in thylakoid membrane

1. O_2 evolution
2. NADPH formation
3. CO_2 fixation
4. ATP Synthesis

72. Identify the micronutrient from the following

1. Manganese
2. Calcium
3. Sulphur
4. Magnesium

73. The loss of water from the leaves of plants in liquid form is called

1. Transpiration
2. Guttation
3. Evaporation
4. Diffusion

74. Transduction was first discovered in

1. *Salmonellatyphimurium*
2. *Streptococcuspheumoniae*
3. *Escherichia coli*
4. *Corynebacteriumdiphtheriae*

75. If a cross between two plants give 75% tall and 25% dwarf progeny, then the parents genotype are (consider ‘T’ is dominant over ‘t’)

1. Tt × tt
2. TT × tt
3. Tt × Tt
4. TT × Tt

76. The enzyme which joins Okazaki fragments in DNA replication is

1. DNA polymerase
2. RNA polymerase
3. DNA ligase
4. Helicase

77. Identify the stop codons from the following

1. UCG
2. UAA
3. UAC
4. UGU

78. ‘Cry’ genes are obtained from

1. *Agrobacteriumtumefaciens*
2. *Bacillusthuringiensis*
3. *Bacillusamyloliquefaciens*
4. *Erwiniaamylovora*

79. The stain used to visualize DNA on agarose gel is

1. Ethidium bromide
2. Acetocarmine
3. Crystal violet
4. Safranin

80. Leaf blight of potato is caused by

1. Bacterium
2. Fungus
3. Virus
4. Mycoplasma

81. It is measured by counting the number of taxa (usually species) within a particular area, community or ecosystem

1. Alpha diversity
2. Delta diversity
3. Beta diversity
4. Gamma diversity

82. Sebaceous glands are

1. Endocrine glands
2. Apocrine glands
3. Merocrine glands
4. Holocrine glands

83. These are commonly referred to as sea anemones

1. Hydrozoa
2. Turbellaria
3. Anthozoa
4. Trematoda

84. Pecten is a peculiar structure found in the eye ball of

1. Amphibians
2. Aves
3. Reptiles
4. Mammals

85. Pick up the correct match :

1. Stichonematic flagellum – *Monas*
2. Pantonematic flagellum – *Astasia*
3. Acronematic flagellum – *Polytoma*
4. Pantacronematic flagellum – *Chilomonas*

86. Study the following and pick up the correct statement :

1. Increase of number of cells in host due to parasite is called hypertrophy.
2. Increase of size of cells of host tissues due to parasite is called hyperplasia.
3. Degeneration of liver of host due to parasite is called castration.
4. Formation of new structure in the tissues of the host due to parasite is called neoplasia.

87. Quartan malaria is caused by

1. *Plasmodium vivax*
2. *Plasmodium ovale*
3. *Plasmodium falciparum*
4. *Plasmodium malariae*

88. Wings of cockroach are elevated by the contraction of

1. Dorso-longitudinal muscles
2. Dorsoventral muscles
3. Adductor muscles
4. Alary muscles

89. During the transfer of energy from one trophic level to the next, only about 10 percent of energy is stored as biomass and the remaining is lost during the transfer or broken in catabolic activities. It was explained by

1. Van't Hoff
2. Allen
3. Elton
4. Lindeman

90. Scrubbers are used to control the pollution of

1. O_3
2. SO_2
3. Aerosauls
4. Methane

91. The enzyme invertase is secreted by

1. Gastric glands
2. Salivary glands
3. Intestinal glands
4. Liver

92. In human heart, the opening of coronary sinus into right atrium is guarded by

1. Eustachian valve
2. Thebesian valve
3. Tricuspid valve
4. Aortic valve

93. This bone is not belong to coxal bone

1. Clavicle
2. Illium
3. Ischium
4. Pubis

94. In human brain superior colliculi are concerned with

1. Vision
2. Hearing
3. Balancing
4. Memory

95. Union of pronuclei of the gametes is called

1. Isogamy
2. Anisogamy
3. Hologamy
4. Amphimixis

96. Energy source for the sperms in the semen is

1. Prostaglandins
2. Vitamin C
3. Fructose
4. Citric acid

97. If a man [whose father is colour blind and mother has normal (homozygous) vision] marries a woman [whose mother is colour blind and father has normal vision], the vision expected in their male children is

1. 75% normal, 25% colour blind
2. 50% normal, 50% colour blind
3. 25% normal, 75% colour blind
4. 100% normal

98. Golden age of fishes

1. Carboniferous period
2. Jurassic period
3. Triassic period
4. Devonian period

99. Mating of male parent with its female offspring is known as

1. Species hybridisation
2. Close breeding
3. Line breeding
4. Out breeding

100. Long Q-T interval in ECG indicates

1. Myocardial infarction
2. Hyperkalemia
3. Hypokalemia
4. Bundle branch block