



PART – A

1. Fill appropriate preposition in the blank :

The bread is made _____ wheat flour.

- A) of
B) from
C) in
D) on

2. Find the appropriate homonym for Altar.

- A) Alter
B) Altor
C) Altur
D) Altair

3. A Simile is a

- A) Contrast
B) Parallel
C) Combination
D) Comparison

4. Find the correct idiom.

- A) Better safe than sad
B) Better safe than serious
C) Better safe than sorry
D) Better safe than regretful

5. Find the correct expression.

- A) Between you and I
B) Between you and me
C) Between you and my
D) Between you and mine

6. Pair with harp from the following.

- A) on
B) at
C) upon
D) in

7. Choose the correct homophone for Ascent.

- A) Accent
B) Assent
C) Axent
D) Axant

8. Which of the following is an Indian Grammarian ?

- A) Bhash
B) Bharata
C) Panini
D) Prakasam

9. Who is the Indian Nobel Laureate for Literature ?

- A) Jatin Kumar Naik
B) Hargobind Khurana
C) Rabindranath Tagore
D) Mother Teresa



10. Who among the following wrote The Jungle Book?
A) Mark Twaine
B) R.K. Narayan
C) Rudyard Kipling
D) Rabindranath Tagore
11. Rangaswamy Cup is associated with
A) Archery
B) Cricket
C) Football
D) Hockey
12. Who is the father of Geometry ?
A) Aristotle
B) Euclid
C) Pythagoras
D) Kepler
13. Shivaji's war strategy used against the Mughals was
A) Alert Army
B) Political Supremacy
C) Large Army
D) Guerilla Warfare
14. Marginal utility, a consumer derives from a good, is
A) Change in his total utility as a result of adding one unit to his stock of a good
B) Utility derived from a particular good
C) Change in utility derived as a result of a change in the price of a good
D) Change in his total utility when he buys extra units of a good
15. Joint Military Exercise Nomadic Elephant 2017 is being held between India and
A) Vietnam
B) Mongolia
C) Sri Lanka
D) Thailand
16. $1014 \times 986 = ?$
A) 998804
B) 998814
C) 998904
D) 999804
17. After deducting a commission of 5%, a T.V. set costs Rs. 9595. Its marked price is
A) Rs. 10,000
B) Rs. 10,075
C) Rs. 10,100
D) Rs. 10,500
18. At what rate percent per annum will a sum of money double in 16 years ?
A) 6.25% p.a.
B) 6.00% p.a.
C) 6.75% p.a.
D) 6.50% p.a.



19. In an exam two papers, maths and chemistry, 60% of the students pass in maths and 70% pass in chemistry. What is the minimum percentage of students who could have failed in both the subjects ?
- | | |
|--------|------------------|
| A) 0% | B) 30% |
| C) 40% | D) None of these |
20. A can do a piece of work in 80 days. He works at it for 10 days and then B alone finishes the remaining work in 42 days. In how much time will A and B working together, finish the work ?
- | | |
|------------|------------|
| A) 40 days | B) 35 days |
| C) 50 days | D) 30 days |
21. Choose the missing term out of the given alternatives Y, W, U, S, Q, ?, ?
- | | |
|---------|---------|
| A) M, L | B) J, R |
| C) L, M | D) O, M |
22. In a certain language, PEN is written as QDM, then how BOOK will be written in that code?
- | | |
|---------|---------|
| A) CMJN | B) CNNJ |
| C) CNLS | D) NMJP |
23. B, the son of A was married to C, whose sister D was married to E, the brother of B. How is D related to A ?
- | | |
|------------------|--------------------|
| A) Sister | B) Daughter-in-law |
| C) Sister-in-law | D) Cousin |
24. Statements :
- I. The farmers have decided against selling their Kharif crops to the Government agencies.
 - II. The Government has reduced the procurement price of Kharif crops starting from the last month to the next six months.
- | |
|---|
| A) Statement I is the cause and statement II is its effect |
| B) Statement II is the cause and statement I is its effect |
| C) Both the statements I and II are independent causes |
| D) Both the statements I and II are effects of independent causes |
25. Indiscreet is related to imprudent in the same way as Indisposed is related to
- | | |
|--------------|--------------|
| A) Concerned | B) Crucial |
| C) Clear | D) Reluctant |

A*



PART – B

26. Which of the following is a secondary air pollutant ?
A) Ozone
B) Carbon-dioxide
C) Carbon-monoxide
D) Sulphur-dioxide
27. The Gas which got leaked in Bhopal Tragedy was
A) Methyl isocyanate
B) Potassium isocyanate
C) Ethyl isocyanate
D) Sodium
28. Biochemical Oxygen Demand measures
A) Industrial Pollution
B) Air Pollution
C) Pollution capacity of effects
D) Dissolved oxygen needed by microbes to decompose organic waste
29. Geochemical processes operate only because of
A) Presence of various chemical on the earth's crust
B) Water circulation system
C) A flow of energy from a higher to a lower potential or intensify
D) High pressure in the crust
30. Fluoride pollution mainly affects
A) Kidney
B) Brain
C) Heart
D) Teeth
31. The phenomenon of mountain building is associated with the process where
A) Two continental plates collide
B) Oceanic plate undergoes subduction beneath continental plate
C) Two oceanic plates diverge
D) Continental plate undergoes subduction beneath oceanic plate
32. Disease caused by eating fish inhabiting mercury contaminated water is
A) Bright's disease
B) Hiroshima episode
C) Minamata disease
D) Osteosclerosis



33. Which of the following is a biodegradable organic substance ?
A) Oil
B) Plastic
C) Pesticides
D) Garbage
34. Which of the following is a likely characteristic of hazardous waste ?
A) Corrosivity
B) Ignitability
C) Reactivity
D) Any of the above
35. Pyramid of numbers in a grassland/tree ecosystem is
A) Always inverted
B) Always upright
C) Both A) and B)
D) Spindle shaped
36. Acid rain is due to increase in atmospheric concentration of ?
A) Ozone and Dust
B) CO₂ and CO
C) SO₂ and CO
D) NO₂ and SO₂
37. Renewable source of energy is
A) Biomass
B) Coal
C) Petroleum
D) Kerosene
38. Deep black soil is productive due to high proportion of
A) sand and zinc
B) gravel and calcium
C) clay and humus
D) silt and earthworm
39. Food chain in which micro-organisms breakdown the food formed by primary producers is
A) parasitic food chain
B) detritus food chain
C) consumer food chain
D) predator food chain
40. River water deposits
A) loamy soil
B) alluvial soil
C) laterite soil
D) sandy soil
41. American water plant that has become a troublesome water weed in India
A) Cyperus rotundus
B) Eichhornia crassipes
C) Typha latifolia
D) Trapa bispinosa



42. The sum total of the populations of the same kind of organisms constitute
- A) Colony
 - B) Genus
 - C) Community
 - D) Species
43. Soil best suited for plant growth is
- A) Clay
 - B) Loam
 - C) Sandy
 - D) Gravel
44. What is true of ecosystem ?
- A) Primary consumers are least dependent upon producers
 - B) Primary consumers out-number producers
 - C) Producers are more than primary consumers
 - D) Secondary consumers are the largest and most powerful
45. Soil conservation is
- A) Conversion of sterile soil into fertile one
 - B) Aeration of soil
 - C) Erosion of soil
 - D) Protection against loss
46. Gas molecules that absorb thermal infrared radiation and are present in large quantity to change climate system are known as
- A) alpha radiations
 - B) beta radiations
 - C) ozone gases
 - D) greenhouse gases
47. Montreal protocol to reduce production of chlorofluorocarbons was assigned in
- A) 1977
 - B) 1992
 - C) 1987
 - D) 1982
48. Which one of the following places is more likely to be affected by chemical weathering ?
- A) Thar Desert
 - B) Tibetan plateau
 - C) Leh
 - D) Siwalik
49. Quartzite is a kind of
- A) Igneous Rock
 - B) Sedimentary Rock
 - C) Metamorphic Rock
 - D) Monominerallic Rock



50. Photochemical smog pollution does not contain
A) PAN (Per-oxy acyl nitrate) B) Ozone
C) Nitrogen dioxide D) Carbon dioxide
51. Which of the following is considered a hot-spot of biodiversity in India ?
A) Aravalli hills B) Western Ghats
C) Eastern Ghats D) Indo Gangetic Plains
52. Biodiversity Act of India was passed by the Parliament in the year
A) 1992 B) 1996
C) 2000 D) 2002
53. Which of the following pairs is mismatched ?
A) Fossil fuel burning – Release of CO₂
B) Nuclear power – Radioactive waste
C) Solar energy – Greenhouse effect
D) Biomass burning – Release of CO₂
54. The efficiency of energy flow in the ecosystem is about
A) 1% B) 10%
C) 50% D) 100%
55. Which one of the following is not used for disinfection of drinking water ?
A) Chlorine B) Ozone
C) Chloramine D) Phenyl
56. The maximum growth rate occurs in
A) Stationary phase B) Senescent phase
C) Lag phase D) Exponential phase
57. Medicine of quinine is provided by
A) Eucalyptus plant B) Aconite plant
C) Cinchona plant D) Money plant
58. The itai-itai disease of Japan was caused due to
A) Arsenic pollution B) Cyanide pollution
C) Cadmium pollution D) Lead pollution



59. Competition for light, nutrients and space is most severe between
- A) Closely related organism growing in different niches
 - B) Closely related organisms growing in the same area/niche
 - C) Distantly related organisms growing in the same habitat
 - D) Distantly related organisms growing in different niches
60. Pick up the correct food chain.
- A) grass → chamelion → insect → bird
 - B) grass → fox → rabbit → bird
 - C) phytoplankton → zooplankton → fish
 - D) fallen leaves → bacteria → insect larvae
61. Most hazardous metal pollutant of automobile exhausts is
- A) Mercury
 - B) Cadmium
 - C) Lead
 - D) Copper
62. Which among the following is likely to have the highest levels of D.D.T. depositions in its body ?
- A) Sea gull
 - B) Phytoplankton
 - C) Eel
 - D) Crab
63. Prevention, mitigation, preparedness and relief are
- A) Principles of pollution prevention
 - B) Objectives of Hazardous waste management
 - C) The essence of Disaster management
 - D) Modes to combat exploitation of natural resources
64. When huge amount of sewage is dumped into a river, its B.O.D. will
- A) Slightly decrease
 - B) Remain unchanged
 - C) Increase
 - D) Decrease
65. If we completely remove the decomposers from an ecosystem, its functioning will be adversely affected, because
- A) Mineral movement will be blocked
 - B) The rate of decomposition will be very high
 - C) Energy flow will be blocked
 - D) Herbivores will not receive solar energy



66. The Taj Mahal is threatened due to the effect of
A) Oxygen
B) Hydrogen
C) Chlorine
D) Sulphur-dioxide
67. WWF stands for
A) World Water Forum
B) World Wide Fund for nature
C) World Wildlife Fund
D) World War Fund
68. Which of the following pairs is a sedimentary type of biogeochemical cycle ?
A) phosphorus and nitrogen
B) phosphorus and sulphur
C) oxygen and nitrogen
D) phosphorus and carbon dioxide
69. Which of the following is the most stable ecosystem ?
A) Mountain
B) Ocean
C) Forest
D) Desert
70. In India, Project Tiger was initiated in the year
A) 1970
B) 1971
C) 1972
D) 1973
71. Which of the following is the main factor of desertification ?
A) Over-grazing
B) Tourism
C) Irrigated agriculture
D) All of these
72. Which one of the following pairs is correctly matched ?
A) Parasitism – intra-specific relationship
B) Uricotelism – aquatic habitat
C) Excessive perspiration – xeric adaptation
D) Stream lined body – aquatic adaptation
73. The most common indicator organism that represents polluted water is
A) C.vibrio
B) Entamoeba histolytica
C) E.coli
D) P.typhi
74. A sudden uncontrolled descent of a mass of Earth under the force of gravity is called
A) Soil Erosion
B) Mining
C) Landslide
D) Earthquake



75. MAB stands for
A) Mammals and biosphere
B) Mammals and biology programme
C) Man and biology programme
D) Man and biosphere programme
76. Which part of the world has a high density of organisms ?
A) Deciduous forests
B) Tropical rain forests
C) Grasslands
D) Savannahs
77. Which of the following is the use of lichens in case of pollution ?
A) They promote pollution
B) Lichens are not related with pollution
C) They treat the polluted water
D) They act as bioindicators of pollutions
78. The constituent of Producer Gas are
A) 25% Water Vapour + 75% Methane
B) 42% Methane + 8% Propane + 50% Carbondioxide
C) 55% Methane + 45% Carbondioxide
D) 45% Methane + 20% Carbondioxide + 35% Propane
79. What is the best pH of the soil for cultivation of plants ?
A) 3.4 – 5.4
B) 6.5 – 7.5
C) 4.5 – 8.5
D) 5.5 – 6.5
80. What is the intensity of sound in normal conversation ?
A) 10-20 dB
B) 30-60 dB
C) 70-90 dB
D) 120-150 dB
81. Which of the following is absent in polluted water ?
A) Hydrilla
B) Water hyacinth
C) Larva of stone fly
D) Blue green algae
82. Mycorrhiza is an example of
A) Symbiotic relationship
B) Ectoparasitism
C) Endoparasitism
D) Decomposers
83. The rate at which light energy is converted into chemical energy of organic molecules is the ecosystem's
A) Net secondary productivity
B) Gross primary productivity
C) Net primary productivity
D) Gross secondary productivity



84. In desert grasslands, which type of animals are relatively more abundant ?
A) Aquatic
B) Fossorial
C) Diurnal
D) Arboreal
85. The Silent Valley is a
A) Place in Himachal Pradesh
B) Densely forested valley in Palghat district of North Kerala
C) Valley in Garhwal Himalayan region
D) Valley in Siwalik range
86. Which of the following is known as morning star ?
A) Saturn
B) Jupiter
C) Mars
D) Venus
87. The innermost layer of the Earth is known as
A) Lithosphere
B) Mesosphere
C) Asthenosphere
D) Barysphere
88. Coffee is a
A) Sub-tropical shrub
B) Warm temperate shrub
C) Tropical shrub
D) Cool temperate shrub
89. Richter scale is a/an _____ scale to measure earth tremors.
A) Exponential
B) Logarithmic
C) Geometric
D) Physical
90. More than 90% of the rock forming minerals in the Earth's crust consist of
A) Silicates
B) Oxides
C) Carbonates
D) Sulphides and Sulphates
91. Which one of the following is a fresh water fish ?
A) Pomfret
B) Rohu
C) Sardine
D) Salmon
92. Cooking Oil can be converted into Vegetable Ghee by the process of
A) Oxidation
B) Hydrogenation
C) Distillation
D) Crystallization



93. A Chronometer measures
A) Sound waves
B) Time
C) Water waves
D) Colour contrast
94. The type of glass used in making prisms and lenses is
A) Soft glass
B) Pyrex glass
C) Jena glass
D) Flint glass
95. Which of the following elements is obtained from sea-weeds ?
A) Argon
B) Sulphur
C) Vanadium
D) Iodine
96. Permanent hardness of water, due to sulphates of the metal can be destroyed by the use of
A) Nitrates
B) Zeolites
C) Sulphonates
D) None of these
97. Gandhi Sagar Dam is a part of which one of the following ?
A) Chambal project
B) Kosi project
C) Damodar valley project
D) Bhakra Nangal project
98. The Soil of India's Eastern and Western coast is
A) Alluvial Soil
B) Black Soil
C) Desert Soil
D) Laterites
99. Pollination by wind is called
A) Auto gamy
B) Entomophily
C) Anemophily
D) Ornithophily
100. Which of the following is the largest Island ?
A) Sumatra
B) Madagascar
C) Honshu
D) Cuba
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SPACE FOR ROUGH WORK