

Combined Defence Service Exam, 2012
(Held on 19-9-10)
(General Knowledge)
(Ans. Is Bold)

1. The agricultural production in different parts of India is very much affected by varying intensities of floods and droughts. Which one of the following measures would not be sustainable in this respect?
 - a) Provision for extensive irrigation facilities
 - b) Change in the crop calendar
 - c) **C. Avoidance of flood and drought prone areas for agriculture**
 - d) Emphasis on selection of crops best suited to flood and drought conditions

2. Formal or procedural democracy does not by any means guarantee—
 - a) **Political and civil rights**
 - b) Constitutionalism
 - c) The rule of law
 - d) Absence of caste discrimination

3. To which among the following the residuary powers were conferred by the federation established by the Act of 1935?
 - a) Federal legislature
 - b) Provincial legislatures
 - c) **C. Governor General**
 - d) Provincial Governors

4. What is the characteristic feature of Narmada Valley?
 - a) Volcanic Origin
 - b) **B. Structural Origin**
 - c) Glacial Origin
 - d) Aeolian Origin

5. Why are inner lining of hot water geysers made up of copper?
 - a) Copper has low heat capacity
 - b) Copper has high electrical conductivity
 - c) **C. Copper does not react with steam**
 - d) Copper is good conductor of both heat and electricity

6. Which one of the following statements is correct?
- The angles of contact of water with glass is acute, while that of mercury with glass is Obtuse**
 - The angle of contact of water with glass is obtuse, while that of mercury with glass is acute
 - Both the angle of contact of water with glass and that of mercury with glass is acute
 - None of the above
7. The force acting on a particle executing simple Harmonic motion is—
- Directly proportional to the displacement and is directed away from the mean position
 - Inversely proportional to the displacement and is directed towards the mean position
 - C. Directly proportional to the displacement and is directed towards the mean position**
 - Inversely proportional to the displacement and is directed away from the mean position
8. As the sunlight passes through the atmosphere the rays are scattered by tiny particles of dust, Pollen, soot and other minute particulate matters present there. However, when we look up, the sky appears blue during mid-day, because—
- Blue light is scattered most**
 - Blue light is absorbed most
 - Blue light is reflected most
 - Ultra violet and yellow component of sunlight combine
9. A passenger in a moving train tosses a five rupee coin. If the coin falls behind him, then the train must be moving with a uniform—
- A. Acceleration**
 - Deceleration
 - Speed
 - Velocity
10. The pressure exerted on the ground by a man is greatest—
- When he lies down on the ground
 - B. When he stands on the toes of one foot**
 - When he stands with both feet flat on the ground
 - All the above Yield the same pressure
11. Which one of the following is not needed in a nuclear fission reactor?
- Moderator
 - Coolant
 - C. Accelerator**

d) Control device

12. An athlete diving off a high springboard can perform a variety of exercises in the air before entering the water below. which one of the following parameters will remain constant during the fall?

a) The athlete's linear momentum

b) The athlete's moment of inertia

c) The athlete's Kinetic energy

d) D. The athlete's angular momentum

13. If an object having mass of 1 kg is subjected to a force of 1 N it moves with—

a) A speed of 1m/s

b) A speed of 1km/s

c) An acceleration of 10m/S²

d) D. An acceleration of 1m/S²

14. The apparent weight of a steel sphere immersed in various liquids measured using a Spring balance. The greatest reading is Obtained for the liquid—

a) Having the smallest density

b) Having the largest density

c) In which the sphere was submerged deepest

d) Having the greatest Volume.

15. The law enforcement agencies use a chemical test approximate a person's blood alcohol level. The person under going the test blows into the mouthpiece of a bag containing sodium dichromate solution in acidic medium. A chemical reaction with ethanol changes the colour of the solution from—

a) Orange to Green

b) Orange to colourless

c) Yellow to Orange

d) Colourless to Orange

16. Raw mangoes shrivel when pickled in brine. The phenomenon is associated with—

a) Osmosis

b) Reverse Osmosis

c) Increase of Surface tension of fluid

d) Decrease of Surface tension of fluid

17. Which among the following is the correct increasing order of pH found in human body?
- a) **Gastric juice, Saliva, blood**
 - b) Blood, Saliva, Gastric juice
 - c) Saliva, Blood, Gastric juice
 - d) Gastric juice, Blood, Saliva
18. Which of the following is not a periodic property i.e., does not show any trend on moving from one side to the other in the periodic table?
- a) Atomic size
 - b) Valency
 - c) **Radioactivity**
 - d) Electronegativity
19. Which of the following statements is not correct regarding the Armed Forces (Special Powers) Act?
- a) It gives Army officers acting under the Act legal immunity for their action
 - b) **The Act confers Armed Forces Special Powers in operating against the Naxals**
 - c) There has been widespread agitation against the Act
 - d) Justice (Retd) B. P. Jeevan Reddy Committee was constituted to review the Act
20. In Which one of the following pairs of states has the Indian Army launched "Operation Good Samaritan"?
- a) Assam and Manipur
 - b) Manipur and Nagaland
 - c) Assam and Nagaland
 - d) **Manipur and Jammu and Kashmir**
21. Which amongst the following countries is the largest troop contributor to the United Nations Peace Keeping Mission?
- a) **India**
 - b) China
 - c) Pakistan
 - d) Bangladesh
22. Who among the following sport stars was conferred honorary Lieutenant Colonel rank by the Territorial Army?
- a) Sachin Tendulkar
 - b) **Kapil Dev**

- c) Avinav Bindra
- d) Saina Nehwal

23. A woman desires to clean the surface of her gold ornaments by a chemical approach. For this she requires to use—

- a) Aqua regia
- b) Concentrated H₂SO₄**
- c) Concentrated NaOH
- d) Sodium thiosulphate solution

24. A diffraction pattern is obtained using a beam of red light. Which one among the following will be the outcome if the red light is replaced by blue light?

- a) Bands disappear
- b) Diffraction pattern becomes broader and further apart
- c) Diffraction pattern becomes narrower and crowded together**
- d) No change

25. Which one of the following is the correct sequence of the given tiger reserve of India from North to South?

- a) Dudwa-Kanha-Indravati-Bandipur**
- b) Kanha- Bandipur- Dudwa- Indravati
- c) Indravati- Kanha- Dudwa- Bandipur
- d) Dudwa- Kanha – Bandipur- Indravati

26. The important of the president of India can be initiated in—

- a) Either house of the parliament**
- b) A joint sitting of both houses of the parliament
- c) The Lok Sabha alone
- d) The Rajya Sabha alone

27. Which one of the following was not a result of British Colonial Rule in India?

- a) Ruin of Indian agriculture
- b) Ruin of Indian Industries
- c) Ruin of Indian Trade
- d) Ruin of Indian feudalism**

28. Which one of the following pairs is not correctly matched?

- a) Kuroshio-Warm Ocean- Current
 - b) Labrador- Warm Ocean Current**
 - c) Benguela- Cold Ocean Current
 - d) Oyashio- Cold Ocean Current
29. Which one among the following is the idealized global pattern of surface wind from the Equator to pole?
- a) Doldrum- Westerlies Trade wind-Easterlies
 - b) Easterlies- Westerlies- Trade wind- Doldrum
 - c) Doldrum- Trade wind- Westerlies- Easterlies**
 - d) Westerlies- Trade wind- Doldrum- Easterlies
30. Which one among the following has been producing/can produce light by a chemical change?
- a) Sun**
 - b) Moon
 - c) Electric bulb
 - d) Lightning and thunder
31. What is the given data centre?
- a) A data centre created by environments to keep record of green technology, clean production techniques
 - b) A repository for the storage management and dissemination of mechanical, lighting, electrical and computer system development to optimize energy efficiency and environments**
 - c) A data centre for green building for optimizing of power consumption using energy efficient technology
 - d) A repository providing information about details of small scale industries adopting energy efficient measures
32. In IP spoofing—
- a) Secret data are illegally distributed through computer net works
 - b) Cyber Criminals attack another computer by identifying the electronic identity of a trusted machine in order to mark his own true electronic identity**
 - c) Data confidentiality is achieved using cryptographic and steganographic algorithms
 - d) Cyber terrorist, cyber fraud or cyber crimes are identified
33. Which one among the following animal tissues transports hormones and heat and maintains water balance?

- a) Connective tissue
 - b) Muscular tissue
 - c) **Blood**
 - d) Nervous tissue
34. Cattle are capable of digesting cellulose present in the grass and/or fodder that they eat. This ability is attributed to the—
- a) **Presence of cellulose degrading bacteria in the rumen**
 - b) Producing of cellulose by the cattle rumen
 - c) Acids present in the rumen
 - d) Prolonged retention of cellulose in the rumen
35. Why are pregnant women recommended substantial intake of Green leafy vegetables in their diet, especially in the 1st trimester?
- a) They are rich source of Chlorophyll
 - b) They are rich source of lecithin
 - c) **They are rich source of folic acid which is required for DNA synthesis**
 - d) They are rich source of essential fatty acids required for cell anabolism
36. Human body's main organ of balance is located in—
- a) **Inner part of ear**
 - b) Middle part of ear
 - c) Front part of brain
 - d) Top part of vertebral column
37. What is the most conspicuous salient feature of people with 'progeria'?
- a) More hairs on body
 - b) Less immunity to opportunistic infections
 - c) **Faster rate of aging**
 - d) Suffer from infertility
38. A deficiency of which one of the following minerals is most likely to lead to an immunodeficiency?
- a) **Calcium**
 - b) Zinc
 - c) Lead
 - d) Copper

39. Which one of the following is not a mixture?
- a) Toothpaste
 - b) Toilet soap
 - c) **Baking soda**
 - d) Vinegar
40. Which one of the following statements regarding the revolt of 1857 is not correct?
- a) **The revolt was supported whole-heartedly by the educated elite Indian everywhere**
 - b) The diverse elements which took part in the revolt were united by their hatred of British Rule
 - c) The role of Hindu-Muslim unity in the revolt was acknowledged by many, including British officials
 - d) The revolt did not spread to South India
41. Prior to 1813, Which among the following measures, was not adopted by the British to exploit the Indians economically?
- a) Monopolizing the trade of raw goods wherever possible and selling them at high rates
 - b) Forcing Indians craftsmen to produce quality products in fixed quantity and at fixed price
 - c) **Free trade Policy**
 - d) Elimination of Indian traders from competition by every means
42. Which one among the following prompted Rabindranath Tagore to surrender his title of 'sir'?
- a) The Passing of the Rowlat Act
 - b) The Passing of the Act of 1919
 - c) To support Mahatma Gandhi's Satyagraha Movement
 - d) **To protest against the massacre at Jallianwallahbag the imposition of martial law in Punjab**
43. Which one among the following sums up Marx's view about history?
- a) History is a record of the wars between various people
 - b) **History is a succession of struggle between the oppressor and the oppressed classes**
 - c) History is a faithful record of the past events
 - d) None of the above
44. During the year 2009-10, Which one of the following sector experienced negative growth rate in India?

- a) **Agriculture, Forestry and Fishing**
b) Construction
c) Mining and Quarrying
d) Manufacturing
45. What are the new issues that dominate the middle class led social agenda today?
a) **Price rise, Progressive taxation and the Indo-USA nuclear deal**
b) Acute deprivation, malnourishment and famines
c) Dowry deaths, gender inequalities and price rise
d) Illiteracy, poverty and infant mortality
46. What is the minimum mandate of a democratic government?
a) Respond to on-going priorities in public criticism and threats to survival by decisive public action
b) **Respond to demands of middle class pressure groups on an urgent basis**
c) Preempt social agitation by enacting sensitive laws
d) Attend to severity threats threaten national sovereignty
47. What does the author mean by nyaya?
a) Judiciary and Judicial processes
b) The rule of law and the constitution
c) **A concept of justice that combines theories of justice with the practices of democracy**
d) Universal theories of justice that are applicable as standards in all societies
48. Mosquito can be a vector for following diseases except—
a) Yellow fever
b) Dengue fever
c) Filaria
d) **D. Kala-Azar**
49. Which one of the following is the correct sequence of increasing velocity of wind?
a) **Light breeze- Fresh breeze- Gale- Hurricane**
b) Fresh breeze- Fresh breeze- Hurricane- Gale
c) Light breeze- Gale- Fresh breeze- Hurricane
d) Hurricane- Light breeze- Gale- Fresh breeze
50. Which one of the following mountain ranges separates Europe from Asia?

- a) Apenine
- b) Black Forest
- c) **Ural**
- d) Sulaiman

51. Which one among the following is not a Baltic nation?

- a) Latvia
- b) **Slovakia**
- c) Lithuania
- d) Estonia

52. Which one of the following Indian company has recently acquired African mobile service operations in fifteen countries from Zain?

- a) **Bharti-Airtel**
- b) Tata Teleservices
- c) Reliance communication
- d) Bharat Sanchar Nigam Limited

53. Zero Hour in the Indian parliament start at?

- a) First hour of the sitting
- b) Last hour of the sitting
- c) 12.00 noon
- d) **No fixed timing**

54. 'An inconvenient truth' Is a film directed by AI Gore to promote public awareness about—

- a) Terrorism
- b) **Global Warming**
- c) Nuclear threats
- d) Communication

55. During the Indian monsoon season—

- a) The westerly jet stream alone exists in the Indian region
- b) The easterly jet stream along exists in the Indian region
- c) **Both westerly and easterly jet streams exist in the Indian region**
- d) Both westerly and easterly jet streams disappear

56. Which one of the following is correct sequence of the following topographical features found river upper to lower course of a river?
- a) Ox-bow lake- Rapids-Estuary
 - b) Rapids- Estuary -Ox-bow lake
 - c) **Rapids- Ox-bow lake- Estuary**
 - d) Estuary- Ox-bow lake- Rapids
57. The Earth moves around the sun in an elliptic trajectory due to gravity. If another sun like star is brought near the Earth, what will be the shape of the trajectory?
- a) **Ellipse**
 - b) Parabola
 - c) Circle
 - d) It will be undeterministic
58. Which among the following are the most important raw materials for manufacturing of soap?
- a) **Fats and Caustic Alkali**
 - b) Fats and Potash
 - c) Fats and Acid
 - d) Vegetable oil and Potash
59. Chemically silk fibres are predominantly?
- a) **Protein**
 - b) Carbohydrate
 - c) Complex lipid
 - d) Mixture of Polysaccharide and fat
60. Which one of the following countries does not have a border with China?
- a) Myanmar
 - b) Afghanistan
 - c) **Thailand**
 - d) Kazakhstan
61. The Russian revolutionaries derived their ideology from the doctrines of—
- a) Lenin and Stalin
 - b) **Marx and Lenin**
 - c) Marx and Engels

- d) Lenin and Engels
62. Which among the following are the five principles of peaceful coexistence or Panchsheel as outlined by Jawaharlal Nehru?
- a) Mutual respect, military collaboration, economic collaboration, decolonization and territorial integrity
 - b) Mutual respect, for each other territorial integrity and Sovereignty, non-aggression, non-interference, equality and Mutual benefit and peaceful coexistence**
 - c) Peaceful co-existence, economic, collaboration, cultural interaction, territorial integrity and decolonization
 - d) Disarmament, peaceful coexistence, economic collaboration, cultural interaction, and territorial integrity
63. The core of political democracy lies in the basic axiom of electoral democracy which is based on—
- a) Right to education
 - b) Freedom of speech
 - c) Right to equality
 - d) Universal adult franchise**
64. Which one of the following statements regarding judiciary in India is not correct?
- a) District Court in India presided over by the judge
 - b) The District and Session judge is pal the principal court of civil Jurisdiction**
 - c) The Munsiff's court has both civil and criminal Jurisdiction
 - d) The District and Session judge has the power to impose capital punishment
65. Which one of the following fundamental rights is also available to a foreigner in India soil?
- a) Prohibition of discrimination on grounds of religion, race, caste, sex or place of birth
 - b) Equality of opportunity in matters of public employment
 - c) Protection of life and personal liberty according to procedure established by law**
 - d) To practice any profession or to carry on any occupation trade or business
66. Which of the following three rivers of the peninsula India have the Amarkantak region as their source?
- a) Narmada, Krishna, Godavary
 - b) Son, Mahanadi, Narmada**
 - c) Godavary, Krishna, Cauvery
 - d) Chambal, Betwa, Luni

67. Which among the following states of India have common border with Pakistan?

- a) Jammu and Kashmir, Himachal Pradesh, Punjab and Rajasthan
- b) Punjab, Jammu and Kashmir, Rajasthan and Gujarat**
- c) Jammu and Kashmir, Punjab and Rajasthan
- d) Punjab, Himachal Pradesh, Gujarat and Rajasthan

68. Which one of the following is a correct Sequence in the increasing order of salinity concentration?

- a) Gulf of California-Baltic sea- Red sea-North sea
- b) Baltic sea- North sea- Gulf of California- Red sea**
- c) Red sea- Gulf of California- North sea- Baltic sea
- d) North sea- Gulf of California- Baltic sea- Red sea

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