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Karnataka Power Transmission Corporation Ltd



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(1) To meet the educational needs of the people, the Madarasa-I Nasiri was built in the region of

- [A] Qutub-ud-din Aibak
- [B] Iltutmish
- [C] Ruknuddin Firoz Shah
- [D] Jalal-id-din Khilji

Answer : [B]

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(2) Tolkappiyam is associated with the

- [A] first Sangam period
- [B] second Sangam period
- [C] third Sangam period
- [D] post-third Sangam period

Answer : [B]

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(3) Though Ashoka had many sons, the inscriptions mentioned only one who is not mentioned in any other source. He is

- [A] Kunala
- [B] Tivara
- [C] Mahendra
- [D] Jalauka

Answer : [B]

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(4) Under the Government of India, Provincial Legislatures consisted of two chambers, except in the case of

- [A] Assam
- [B] Bihar
- [C] Madras
- [D] Punjab

Answer : [D]

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(5) The twenty-third Jaina teacher, Parsva, the immediate predecessor of Mahavira enjoined on his disciples four great vows. To these Mahavira adds which of the followings as the fifth vow?

- [A] Abstention from stealing
- [B] Non-injury
- [C] Brahmacharya or continence
- [D] Non-attachment

Answer : [C]

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(6) Radioactivity is a phenomenon of the spontaneous emission of

- [A] protons (alpha particles)

- [B] electrons (beta particles)
[C] gamma rays (short wave electromagnetic waves)
[D] All of the above

Answer : [D]

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(7) Organic Substances which, in very small amounts, control growth and development called

- [A] vitamins
[B] hormones
[C] enzymes
[D] None of the above

Answer : [B]

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(8) Oxygen in our blood is transported by a protein named

- [A] haemoglobin
[B] keratin
[C] collagen
[D] myoglobin

Answer : [A]

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(9) One day you wake with a sore throat and a runny nose. Your doctor takes a swab from your throat, sends it to a lab, and telephones you the next day to say that antibiotic will not help you get better. Which of the following is the most likely reason for the doctor's statement?

- [A] Having waited a day, it is too late to take an antibiotic
[B] You need an antiseptic, not an antibiotic
[C] You need to be vaccinated instead of taking an antibiotic
[D] You are infected by a virus

Answer : [D]

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(10) *Mycobacterium leprae* causes leprosy, *Corynebacterium diphtheria* causes diphtheria and *Vibrio comma* causes

- [A] tetanus
[B] influenza
[C] cholera
[D] typhoid

Answer : [C]

Explanation: *Vibrio cholerae* (also *Kommabacillus*) is a gram negative comma-shaped bacterium with a polar flagellum that causes cholera in humans

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(11) Rainbow is due to

- [A] absorption of sunlight in minute water droplets
[B] diffusion of sunlight through water droplets

[C] ionisation of water deposits

[D] refraction and reflection of sunlight by water droplets

Answer : [D]

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(12) ML^2T^{-2} is the dimensional formula for

[A] moment of inertia

[B] pressure

[C] elasticity

[D] couple acting on a body

Answer : [D]

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(13) Natural radioactivity was discovered by

[A] Marie Curie

[B] Ernest Rutherford

[C] Henri Becquerel

[D] Enrico Fermi

Answer : [C]

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(14) Planets are

[A] luminous heavenly bodies revolving around a star

[B] non-luminous heavenly bodies

[C] luminous heavenly bodies that twinkle

[D] luminous heavenly bodies that do not twinkle

Answer : [B]

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(15) An aeroplane is flying horizontally with a velocity of 600 km/h and at a height of 1960 m. When it is vertically at a point A on the ground a bomb is released from it. The bomb strikes the ground at point B. The distance AB is

[A] 1200 m

[B] 0.33 km

[C] 3.33 km

[D] 33 km

Answer : [C]

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(16) What is the wavelength of visible spectrum?

[A] 8500 - 9800 angstrom

[B] 7800 - 8000 angstrom

[C] 3900 - 7600 angstrom

[D] 1300 - 3000 angstrom

Answer : [C]

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(17) The dark lines in the solar spectrum are due to

- [A] absorption of corresponding wavelengths by the outer layers of the sun
- [B] destructive interference between waves of certain definite wavelengths
- [C] absorption of corresponding wavelengths by the prism used in the photograph
- [D] absence of corresponding wavelengths from the light emitted by the core of the sun

Answer : [A]

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(18) Epoxy resins are used as

- [A] detergents
- [B] insecticides
- [C] adhesives
- [D] moth repellents

Answer : [C]

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(19) Deep blue colour is imparted to glass by the presence of

- [A] cupric oxide
- [B] nickel oxide
- [C] cobalt oxide
- [D] iron oxide

Answer : [C]

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(20) Which one of the following is the petroleum wax?

- [A] Paraffin wax
- [B] Jonoba wax
- [C] Carnauba wax
- [D] Bees wax

Answer : [A]

Explanation: Paraffin wax is obtained from petroleum by dewaxing light lubricating oil stocks. It is used in candles, wax paper, polishes, cosmetics, and electrical insulators. It assists in extracting perfumes from flowers, forms a base for medical ointments, and supplies a waterproof coating for wood. In wood and paper matches, it helps to ignite the matchstick by supplying an easily vaporized hydrocarbon fuel.

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