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JA & JC (Prelim) – 2015 – Set – 4

GA

108408

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JA & JC (Prelim) – 2015 – Set – 4

GA

Time : 1½ Hours

Full Marks : 100

Each question carries 1 mark.

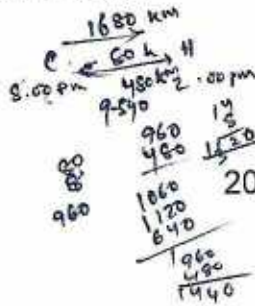
Answer **all** questions, choosing the correct **one** from the alternatives suggested and darken the appropriate circle using **BLUE or BLACK BALL POINT PEN**.

1. The most genetically modified plant is :
 (1) Potato (2) Rice
 (3) Sugarcane (4) Tobacco
 (5) Wheat
2. Enhanced growth in the production of shrimps by improved methods is called :
 (1) Blue Revolution
 (2) Grey Revolution
 (3) Pink Revolution
 (4) White Revolution
 (5) Yellow Revolution
3. Which of the following biosphere reserves in India has not been recognized by UNESCO on World Network of Biosphere Reserves ?
 (1) Agastyamalai
 (2) Gulf of Mannar
 (3) Nokrek
 (4) Panchmarhi
 (5) Simlipal
4. Acid rain is a cocktail of :
 (1) Hydrochloric acid and Nitric acid
 (2) Hydrochloric acid and Sulphuric acid
 (3) Sulphuric acid and Nitric acid
 (4) Water and Nitric acid
 (5) Water and Sulphuric acid
5. What is the function of 'F7' key in the Microsoft Word programme ?
 (1) It helps in changing the font face
 (2) It helps in changing styles
 (3) It helps in checking spellings and grammar
 (4) It helps in formatting the paragraph
 (5) It opens up the Thesaurus
6. Which of the following keys in Microsoft Excel programme helps in inserting a hyperlink ?
 (1) Ctrl + F (2) Ctrl + H
 (3) Ctrl + K (4) Ctrl + T
 (5) Ctrl + V

7. In a class of 180 students, $\frac{4}{15}$ th of the strength, were absent on a rainy day. If $\frac{3}{4}$ th of those present had brought rainy coat, then how many did not bring rainy coat ?
 (1) 33 (2) 36
 (3) 48 (4) 99
 (5) 132
8. In a temple five bells toll together and then toll at intervals of 6, 7, 8, 9 and 12 seconds respectively. After what time lag will all the bells toll together again ?
 (1) 42 seconds
 (2) 4 minutes and 12 seconds
 (3) 8 minutes and 24 seconds
 (4) 10 hours 4 minutes and 48 seconds
 (5) Never will toll together again
9. There are three towers – A, B and C. Height of the tower A is 20% less than the height of tower B, while the height of tower C is 20% more than that of tower B. By what percentage is the height of tower C greater than the height of tower A ?
 (1) 33.33 (2) 36
 (3) 40 (4) 45
 (5) 50
10. A shopkeeper sold a fan at a profit of 10%. Had he purchased it for 5% less and sold for Rs. 56 more, he could have gained 25%. What was the cost price of the fan ?
 (1) Rs. 560 (2) Rs. 640
 (3) Rs. 720 (4) Rs. 800
 (5) Rs. 880
11. Rate of interest remaining same, the difference between compound and simple interests generated in two years on an investment of Rs. 10,000 amounts to Rs. 64. Determine the rate of interest per annum :
 (1) 4% (2) 5%
 (3) 6% (4) 7%
 (5) 8%
12. In a school of 1440 students, boys and girls are in a ratio of 7 : 5. If 40 new boys are admitted, then how many new girls need to be admitted to make this ratio 5 : 4 ?
 (1) 66 (2) 100
 (3) 104 (4) 120
 (5) 176
13. A, B and C can complete a work in 100, 120 and 150 days respectively. If A leaves after first 20 days and B leaves 30 days before the completion of the work, then in how many days the work is completed ?
 (1) 40 (2) 50
 (3) 70 (4) 90
 (5) 100
14. Two pipes can separately fill an empty tank in 2 hours and 3 hours respectively, while a third can empty the full tank in $1\frac{1}{2}$ hours. If all the three pipes are opened together, then in what time the empty tank is going to be filled ?
 (1) $3\frac{1}{2}$ hours (2) 4 hours
 (3) 5 hours (4) 6 hours
 (5) $6\frac{1}{2}$ hours

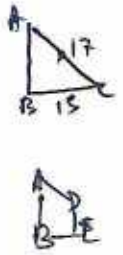
15. The down train starting from Howrah at 2.00 PM takes 21 hours to reach Chennai, a distance of 1,680 Km. The up train starting at 8.00 PM on the same day from Chennai takes 24 hours to reach Howrah. If both trains maintain uniform speeds, then at what time shall the two trains cross each other ?

- (1) 8 PM same day
- (2) 10 PM same day
- (3) 2 AM next day
- (4) 4 AM next day
- (5) 10 AM next day



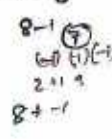
19. In a right angled triangle the diagonal AC and the base BC equal to 17 cm and 15 cm respectively. If ABDE is a rectangle drawn on AB such that the area of the ΔABC equals the area of ABDE, then find AE :

- (1) 7.0 cm
- (2) 7.5 cm
- (3) 8.0 cm
- (4) 8.5 cm
- (5) 9.0 cm



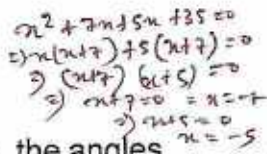
16. Given the value of x and y as 2 and -1 respectively, which of the following terms shall equal to $(x^3 - y^3)$?

- (1) $(x - y)^2$
- (2) $(x + y)^2$
- (3) $x^2 - y^2$
- (4) $x^2 + y^2$
- (5) $x^3 + y^3$



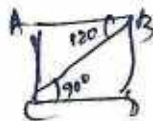
17. Which of the following equations can only have negative solutions for x ?

- (1) $x^2 - 2x - 35 = 0$
- (2) $x^2 + 2x - 35 = 0$
- (3) $12x - 35 - x^2 = 0$
- (4) $x^2 + 12x + 35 = 0$
- (5) $x^2 - 12x - 35 = 0$



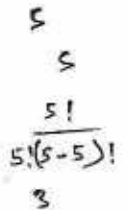
18. In a quadrilateral ABCD, the angles ABC and BCD 120° and 90° respectively. What type of quadrilateral is this ?

- (1) Square
- (2) Rectangle
- (3) Rhombus
- (4) Parallelogram
- (5) None of the above



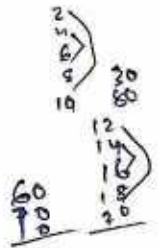
20. In how many ways can five children be put in five chairs in a classroom ?

- (1) 1
- (2) 5
- (3) 10
- (4) 20
- (5) 120



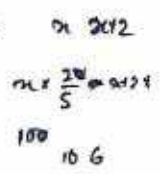
21. The sum total of all the even integers from 2 to 20 is :

- (1) 90
- (2) 100
- (3) 110
- (4) 132
- (5) 210



22. Find two consecutive odd numbers such that $2/5$ th of the smaller one exceeds $2/9$ th of the larger by 4 :

- (1) 25, 27
- (2) 27, 29
- (3) 29, 31
- (4) 31, 33
- (5) 33, 35



23. Which of the following numbers does not yield an integer when divided by 9 ?

- (1) 495621
- (2) 542925
- (3) 639324
- (4) 729161
- (5) 891549

24. Find the missing number at 'X' in the given sequence :

- 26, 18, 12, X, 6.
- +8 -6 -6 +4 -2
- (1) 7 (2) 8
(3) 9 (4) 10
(5) 11

25. Which of the following is not true for the data 12, 13, 9, 3, 5, 3, 4 ?

- (1) Sum total = 49
(2) Range = 10
(3) Mode = 3
(4) Median = 5
(5) Mean = 8 ✓

26. Which of the following words is close to the meaning of the word 'benign' ?

- (1) Cheerful (2) Kind
(3) Normal (4) Passionate
(5) Punctual

27. Which of the following words is close to the opposite meaning of the word 'repudiate' ?

- (1) Admit
(2) Challenge
(3) Compromise
(4) Reject
(5) Revolt

28. The word secular is a / an :

- (1) Adverb (2) Adjective
(3) Noun (4) Preposition
(5) Pronoun

29. 'Something happening in the night' is known as :

- (1) Darkling (2) Darkened
(3) Nocturnal (4) Nightfall
(5) Night-life

30. Which of the following is the past tense of the verb 'bleed' ?

- (1) Blad (2) Blade
(3) Bled (4) Bleeded
(5) Blode

31. ନିମ୍ନୋକ୍ତ କେଉଁଟି 'ବ୍ରହ୍ମର୍ଷି' ପଦର ସମାସ ଅଟେ ?

- (1) ଉପପଦ ଚତୁର୍ଭୁଷ
(2) କର୍ମଧାରୟ
(3) ବହୁବ୍ରାହି
(4) ଦ୍ଵନ୍ଦ୍ଵ
(5) ଦ୍ଵିଗୁ

32. ନିମ୍ନ ପଦମାନଙ୍କ ମଧ୍ୟରୁ କେଉଁଟି ବ୍ୟଞ୍ଜନ ସହି ନୁହେଁ ?

- (1) ଶରତସ୍ତ (2) ଉତ୍କଳ
(3) ଉଦୟାଚନ (4) ବର୍ଣ୍ଣାକ୍ୟ
(5) ତନ୍ମୟ

33. "ନିଜକୁ ପଣ୍ଡିତ ମନେକରେ ଯେ" — ଏହାର ଏକପଦାକରଣ କର ।

- (1) ଜ୍ଞାନୀ (2) ବିଜ୍ଞ
(3) ଚତୁର (4) ବୁଦ୍ଧିମାନ
(5) ପଣ୍ଡିତମନ୍ୟ

34. ନିମ୍ନୋକ୍ତ ଶବ୍ଦମାନଙ୍କ ମଧ୍ୟରୁ କେଉଁଟିର ବନାନ୍ ଠିକ୍ ?

- (1) ଶପିଭୁଷଣ (2) ଶଶିଭୁଷଣ
(3) ଶଶିଭୁଷଣ (4) ଶଶୀଭୁଷଣ
(5) ଶଶୀଭୁଷଣ

35. ଏକ ବା ଏକାଧିକ ବ୍ୟଞ୍ଜନ ବର୍ଣ୍ଣର ବାରମ୍ବାର ପ୍ରୟୋଗରେ କେଉଁ ଅଳଙ୍କାର ହୁଏ ?

- (1) ଅନୁପ୍ରାସ (2) ଉପମା
(3) ପ୍ରତୀପ (4) ଯମକ
(5) ଶ୍ଳେଷ

36. Which country has shown most radical improvement during 2009-2015 as per the recent release of the Legatum Prosperity Index List, 2015 ?
- (1) Denmark
(2) Indonesia
(3) Rwanda
(4) Switzerland
(5) Venezuela
37. Which cities shall be developed as "Smart Cities" by the technical assistance of the French Development Agency as per the recent MoU signed between India and France ?
- (1) Ahmedabad, Chandigarh, Puducherry
(2) Bhubaneswar, Delhi, Nagpur
(3) Bhubaneswar, Chandigarh, Nagpur
(4) Chandigarh, Nagpur, Puducherry
(5) Delhi, Nagpur, Puducherry
38. Which famous film actor has been conferred with "Padmabibhusan" on the occasion of Republic Day, 2016 ?
- (1) Amitabh Bachhan
(2) Chiranjeevi
(3) Dilip Kumar
(4) Mammooty
(5) Rajnikanth
39. Who has been awarded with 'Ashok Chakra' posthumously on 26th January, 2016 ?
- (1) Colonel Santosh Yashwant Mahadik
(2) Lance Naik Mohan Nath Goswami
(3) Naik Satish Kumar
(4) Sepoy Dharma Ram
(5) Sepoy Jagdish Chand
40. Who among the following awardees of the Ramon Magsaysay Award for the year 2015 has been conferred with the award for 'emergent leadership' ?
- (1) Anshu Gupta
(2) Kommaly Chanthabhong
(3) Kyaw Thu
(4) Ligya Fernando Amilbansa
(5) Sanjiv Chaturvedi
41. Which missile has been recently test-fired from Integrated Test Range, Chandipur, Odisha on 28th January, 2016 ?
- (1) Akash (2) Astra
(3) Nag (4) Prithvi
(5) Trishul
42. Which of the following pair of players was defeated by the Sania Mirza and Martina Hingis pair in the Australian Open Women's Doubles Finals in January, 2016 ?
- (1) Andrea Hlavackova and Lucie Hradecka
(2) Anna-Lena Groenefeld and Coco Vandeweghe
(3) Julia Goerges and Carolina Pliskova
(4) Lyudmyla Kichenok and Nadila Kichenok
(5) Svetlana Kuznetsova and Roberta Vinci

43. Which Indian film was submitted to the 88th Academy Awards for Best Foreign Language Film ?
- (1) A War
 - (2) Court
 - (3) Mustang ✓
 - (4) Son of Saul
 - (5) Theeb
44. Which of the following cartoonists is best known for his comic cartoon strips "You Said It" in the Times of India ?
- (1) Abu Abraham
 - (2) K. Shankar Pillai
 - (3) Mario Miranda
 - (4) R. K. Laxman
 - (5) Sudhir Dhar
45. Which of the following pairs of musical instruments and their exponents is not correctly matched ?
- (1) Flute – Hari Prasad Chaurasia
 - (2) Santoor – Siv Kumar Sharma
 - (3) Sarod – Ustad Amjad Ali Khan
 - (4) Sitar – S. Balachandran
 - (5) Tabla – Zakir Hussain
46. Four of the following cups are related to a particular game, while one is not. Identify the one :
- (1) Canada Cup
 - (2) Eisenhower Cup
 - (3) Merdeka Cup ✓
 - (4) Ryder Cup
 - (5) Walker Cup
47. Which of the following games played in Manipur, India can be said to be a version of "Polo" ?
- (1) Buzkashi
 - (2) Horseball
 - (3) Pato
 - (4) Sagol Kangjei ✓
 - (5) Polocrosse *
48. For which of the following works did Amrita Pritam receive the Bharatiya Jnanapith Award in 1982 ?
- (1) Aaj aakhaan Waris Shah nu
 - (2) Kagaz Te Kanvas
 - (3) Pinjar ✓
 - (4) Rasidi Ticket
 - (5) Sunehade
49. In which of the following temples of Odisha are twin "Shakti" shrines worshipped ?
- (1) Majhi Ghariani
 - (2) Tara Tarini ✓
 - (3) Khiching
 - (4) Maninaag
 - (5) Manikeswari
50. Which of the following is not among the great truths taught by Buddha ?
- (1) Desire can be controlled by following the Eight Fold Path.
 - (2) Man reaps the fruits of his past deeds.
 - (3) Pain and misery can be ended by killing desire.
 - (4) The cause of all pain and misery is desire.
 - (5) The world is full of sorrow and misery.

51. What is the year of commencement of "Saka Era" ?
 (1) 483 B. C. (2) 57 B. C.
 (3) 78 A. D. (4) 320 A. D.
 (5) 622 A. D.
52. Chanakya was the political advisor of:
 (1) Ashoka ✓
 (2) Bindusara
 (3) Chandragupta ✓
 (4) Kaniska
 (5) Vikramaditya
53. Who among the following can be distinguished from the other four on the basis of the nature of religious movement in medieval India ?
 (1) Madhbacharya
 (2) Nanak ✓
 (3) Nimbarkara
 (4) Ramananda
 (5) Ramanuja
54. Whose period of reign is known as the 'Golden Age' of the Mughal Empire ?
 (1) Akbar ✓ (2) Aurangzeb
 (3) Babar (4) Jahangir
 (5) Shahjahan ✓
55. Which of the following European colonialists established their capital at Pondicherry ?
 (1) Danes (2) Dutch
 (3) English ✓ (4) French
 (5) Portuguese ✓
56. Who became the First Governor General of India under the British Rule ?
 (1) Lord Bentinck ✓
 (2) Lord Cornwallis
 (3) Lord Dalhousie
 (4) Lord Hastings
 (5) Lord Wellesley
57. Which was the major driving force behind the Revolt of 1857 ?
 (1) British reforms like widow marriage, Sati abolition
 (2) Discriminatory tariff policy and heavy taxation
 (3) Introduction of Enfield rifle using animal fat ✓
 (4) Military discrimination against Indian Soldiers
 (5) The Doctrine of Lapse introduced by Dalhousie ✓
58. 'Arya Samaj' was founded by :
 (1) Radhakant Deb
 (2) Raja Ram Mohan Roy ✓
 (3) Swamy Dayanand ✓
 (4) Swami Vivekananda
 (5) Tulsi Ram
59. Which is the year of 'Champaran Satyagraha' ?
 (1) 1915 (2) 1916
 (3) 1917 ✓ (4) 1918
 (5) 1919 ✓

60. Four of the following happened in one year, while one was not. Identify the odd one :
- (1) Cripps Mission to India
 - (2) Commencement of Congress Radio
 - (3) Lord Wavell convened Shimla Conference
 - (4) Establishment of 'Azad Hind Fauj'
 - (5) Quit India Movement
61. Which of the following is not resulted due to the rotation of the Earth ?
- (1) Causation of day and night
 - (2) Causation of seasons
 - (3) Time difference between meridians
 - (4) Change in the direction of winds and ocean currents
 - (5) Rise and fall of tides everyday
62. A flight moving from London to Mumbai took 16 hours to reach the destination. If it had taken off at 9 AM London time on 15th January, 2016, then at what Indian time and date would it have landed at Mumbai ?
- (1) 02.30 PM on 15th
 - (2) 07.30 PM on 15th
 - (3) 01.00 AM on 16th
 - (4) 06.30 AM on 16th
 - (5) 09.00 AM on 16th
63. Which country does maintain the same standard time as that of India ?
- (1) Bangladesh
 - (2) Bhutan
 - (3) Nepal
 - (4) Pakistan
 - (5) Sri Lanka
64. Which nuclear power station is situated in Karnataka ?
- (1) Kaiga
 - (2) Kalpakkam
 - (3) Narora
 - (4) Rawatbhata
 - (5) Tarapur
65. Which of the following volcanoes is not associated with the 'Pacific Ring of Fire' ?
- (1) Mt. Cotopaxi
 - (2) Mt. Fujiyama
 - (3) Mt. Mayon
 - (4) Mt. St. Helens
 - (5) Mt. Vesuvius
66. 'Meander' is formed due to the work of :
- (1) Glacier
 - (2) Running water
 - (3) Underground water
 - (4) Waves
 - (5) Wind
67. Which of the following local winds is known as the 'snow eater' ?
- (1) Chinook
 - (2) Foehn
 - (3) Harmattan
 - (4) Khamsin
 - (5) Sirocco

68. A cloudy night is hotter than a clear night. This is due to :
- (1) Greater convection
 - (2) Increase in sensible heat
 - (3) Increase in solar radiation
 - (4) Influx of latent heat
 - (5) Prevention of Earth radiation
69. Which of the following deserts is located in India ?
- (1) The Atakama
 - (2) The Kalahari
 - (3) The Sahara
 - (4) The Sonoran
 - (5) The Thar
70. The largest of the Indian states in terms of area is :
- (1) Andhra Pradesh
 - (2) Madhya Pradesh
 - (3) Maharashtra
 - (4) Rajasthan
 - (5) Uttar Pradesh
71. The highest peak of Orissa is :
- (1) The Bhismagiri
 - (2) The Deomali
 - (3) The Khairburu
 - (4) The Mahendragiri
 - (5) The Meghasini
72. Which of the following countries is not a member of G-8 ?
- (1) Canada
 - (2) China
 - (3) Russia
 - (4) United Kingdom
 - (5) United States
73. The First Woman Chief Minister of an Indian state is :
- (1) Mrs. Annie Besant
 - (2) Mrs. Indira Gandhi
 - (3) Mrs. Sarojini Naidu
 - (4) Mrs. Sucheta Kripalani
 - (5) Mrs. Vijaya Laxmi Pandit
74. According to the recent provisions in the Indian Constitution the 'right to information' is a corollary of the right to freedom of :
- (1) Assembly
 - (2) Forming Associations
 - (3) Movement
 - (4) Profession, Occupation, Trade and Business
 - (5) Speech and Expression
75. Which form of writ can be issued by a Court in case the executive authority arrests a person in contravention of the procedure established by law ?
- (1) Certiorari
 - (2) Habeas Corpus
 - (3) Mandamus
 - (4) Prohibition
 - (5) Quo Warranto
76. Which Article of the Indian Constitution relating "Directive Principles of State Policy" has the provision to protect the monuments of historic interest and national importance ?
- (1) Article 47
 - (2) Article 48
 - (3) Article 49
 - (4) Article 50
 - (5) Article 51

77. Which union territory is different from the other four in terms of the designation of the Head of Office ?
- (1) Dadra and Nagar Haveli
 - (2) Daman and Diu
 - (3) Delhi
 - ✓(4) Lakshadweep
 - (5) Pondicherry
78. Which of the following types of income earned by an individual in India is exempt from income tax ?
- ✓(1) Agricultural income
 - (2) Capital gains
 - (3) Income from house property
 - (4) Income from salary
 - (5) Profit and gains from business or profession
79. What happens when 'there is excess production over demand' ?
- (1) Deflation
 - (2) Depression
 - (3) Dumping
 - (4) Inflation
 - ✓(5) Recession
80. 'The total money value of all final goods and services produced within the geographical boundaries of the country during a given period of time' is known as :
- (1) Gross National Product
 - ✓(2) Gross Domestic Product
 - (3) Net National Product
 - (4) National Income
 - (5) National Wealth
81. Which of the following rural development programmes is not subsumed within the 'National Rural Employment Guarantee Scheme (NREGS)' ?
- (1) Employment Assurance Scheme
 - (2) Jawahar Gram Samridhi Yojana
 - (3) National Food for Work Programme
 - ✓(4) Nehru Rozgar Yojana
 - (5) Sampoorna Gramin Rozgar Yojana
82. The type of unemployment resulting due to the non-utilisation of the optimal efficiency and capability of a worker is called :
- (1) Disguised unemployment
 - (2) Frictional unemployment
 - (3) Open unemployment
 - (4) Structural unemployment
 - ✓(5) Underemployment
83. The banking institution that facilitates the Indian exporters to operate in international market is :
- ✓(1) EXIM (2) IDBI
 - (3) NABARD (4) NHB
 - (5) SIDBI
84. The 'one rupee' currency note bears the signature of :
- (1) Governor, Reserve Bank of India
 - (2) Minister of Finance
 - (3) President of India
 - (4) Prime Minister of India
 - ✓(5) Secretary, Ministry of Finance

85. In which state in India is the share of population below poverty line the highest ?
- (1) Bihar
 - (2) Jharkhand
 - (3) Madhya Pradesh
 - ✓(4) Odisha
 - (5) West Bengal
86. Who discovered the relationship : $E = mc^2$?
- ✓(1) Albert Einstein
 - (2) H. D. Becquerel
 - (3) Marie Curie
 - (4) Otto Hahn
 - (5) Robert Oppenheimer
87. Which is the unit of measurement of electrical resistance ?
- (1) Coulomb
 - (2) Newton
 - ✓(3) Ohm
 - (4) Volt
 - (5) Watt
88. A cricket player draws his hand back while taking a catch. This is an example of :
- (1) Action
 - ✓(2) Impulse
 - (3) Inertia
 - (4) Momentum
 - (5) Reaction
89. A vehicle starts from rest and gradually increases its motion. What is the phenomenon like ?
- ✓(1) Acceleration
 - (2) Displacement
 - (3) Retardation
 - (4) Speed
 - (5) Velocity
90. Which of the following phenomena is the effect of the centrifugal force ?
- (1) Bending of a cyclist while turning
 - ✓(2) Bulging of the Earth at equator
 - (3) Earth moving round the Sun
 - (4) Movement of electrons around the nucleus
 - (5) Turning of a moving car
91. An air bubble in water behaves as a :
- ✓(1) Concave lens
 - (2) Concave mirror
 - (3) Convex lens
 - (4) Convex mirror
 - (5) Plane mirror
92. Which one is a bad conductor of electricity though being a good conductor of heat ?
- (1) Chromium
 - (2) Cobalt
 - ✓(3) Mica
 - (4) Nickel
 - (5) Tungsten
93. Spherical dew drops develop over leaf surfaces in winter. This is due to :
- (1) Buoyancy
 - (2) Capillary action
 - (3) Diffusion
 - ✓(4) Surface tension
 - (5) Wetting

94. Which of the following radioactive elements is used in the central core of the hydrogen bombs ?
- (1) Actinium
 - ✓(2) Plutonium
 - (3) Polonium
 - (4) Radium
 - (5) Thorium
95. A copper vessel turns green when left exposed to air for long time. It is due to the formation of :
- ✓(1) Copper Carbonate
 - (2) Copper Hydroxide
 - (3) Copper Nitrate
 - (4) Copper Oxide
 - (5) Copper Sulfate
96. Which organ is known as the 'Blood Bank' of the human body ?
- (1) Heart
 - (2) Kidney
 - (3) Liver
 - (4) Lungs
 - ✓(5) Spleen
97. Which of the following types of joints in the skeletal system of humans is found in the hip region ?
- ✓(1) Ball and Socket
 - (2) Gliding
 - (3) Hinge
 - (4) Pivot
 - (5) Saddle
98. Which of the following is not present in animal cell ?
- ✓(1) Cell Wall
 - (2) Nucleus
 - (3) Chromosome
 - (4) Ribosome
 - (5) Mitochondria
99. Photoperiodism is the response of organisms to :
- (1) Periodic change in humidity
 - (2) Rhythmic fluctuations in temperature
 - (3) Seasonal variation in water availability
 - ✓(4) Variation in day length
 - (5) Variation in the pH of the soil
100. The interaction between leguminous plants and nitrogen fixing bacteria is an example of :
- (1) Antibiosis
 - (2) Competition
 - (3) Mutualism
 - ✓(4) Parasitism
 - (5) Predation

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