लोक सेवा आयोग

नेपाल टेलिकम, प्राविधिक, टेलिकम, सार्ती, टेलिकम इन्जिनियर (इलेक्ट्रोनिक्स एण्ड कम्युनिकेशन) पदको आन्तरिक तथा खुला प्रतियोगितात्मक लिखित परीक्षा

२०८२।०३।२९

KEY [A]

पत्र : प्रथम

समय : २ घण्टा १५ मिनेट

पूर्णाङ्क : १००

विषय : **General Awareness, Management and Institutional Awareness Test**

उत्तरपुस्तिकामा प्रश्नपत्रको **KEY** अनिवार्य रूपले उल्लेख गर्नुपर्नेछ । उल्लेख नगरेमा उत्तरपुस्तिका रद्द हुनेछ । परीक्षामा **calculator, mobile** प्रयोग गर्न पाइनेछैन ।

Objective **Time : 45 Minutes**

Multiple Choice **50×1=50 Marks**

1. Who is ranked as the world's richest person in Forbes' 2025 list?
   A) Jeff Bezos B) Elon Musk C) Bernard Arnault D) Mark Zuckerberg
2. When is National ICT Day celebrated in Nepal?
   A) April 25 B) May 2 C) June 5 D) August 15
3. What is the 'Green Mufler Campaign' related with?
   A) Water pollution B) Air pollution C) Sound pollution D) Climate change
4. Where will United Nations Framework Convention on Climate Change (UNFCCC), COP30 be held?
   A) Baku, Azerbaijan B) Dubai, UAE
   C) Belem, Brazil D) Sharm El-Sheikh, Egypt
5. What is the main purpose of a Public Service Charter?
   A) To promote public investment
   B) To outline the duties of general public
   C) To regulate government or public spending
   D) To inform citizens about services, standards and timelines
6. How many areas of cooperation are there in BIMSTEC?
   A) 13 B) 16 C) 19 D) 22
7. Where is the SAARC Secretariat located?
   A) Thimpu B) Dhaka C) New Delhi D) Kathmandu
8. Doreen Boodan-Martin was elected as the ..... Secretary General of the International Telecommunications Union on 29th September, 2022.
   A) 15th B) 18th C) 20th D) 22nd
9. When did the First Five-Year Plan (2013-2018) begin?
   A) 1st Baisakh 2013 BS B) 1st Ashar 2013 BS
   C) 1st Ashoj 2013 BS D) 1st Magh 2013 BS
10. Which body is responsible for interpreting the constitution?
    A) Parliament B) Supreme Court C) Prime Minister D) President
11. What is the targeted unemployment rate to be achieved by the end of 16th Five-Year Plan?
    A) 5.0% B) 6.0% C) 6.5% D) 7.0%
12. By which country's assistance was the Civil Service Hospital (in Nepal) built?
    A) England B) Japan C) India D) China
13. Who is the inventor of Telephone?
    A) Alexander Graham Bell B) Samuel Morse
    C) Claude Chappe D) Robertson

Contd...

14. As per the Economic Survey 2081/82, what is the estimated per capita income (in US Dollar) in the current fiscal year?
A) 1452 B) 1456 C) 1507 D) 1517

15. Which country provided assistance for the establishment of Balaju Industrial District?
A) India B) China C) USA D) Japan

16. What is the topic related to beekeeping business?
A) Viticulture B) Pisciculture C) Sericulture D) Apiculture

17. On which Tithi is "Buddha Jayanti" celebrated in Nepal?
A) Baishakh Shukla Purnima B) Jestha Shukla Purnima
C) Asar Shukla Purnima D) Mangsir Shukla Purnima

18. Which of the following is correct in order of the five major languages spoken in Nepal?
A) Nepali, Maithili, Bhojpuri, Tamang, Tharu
B) Nepali, Bhojpuri, Maithili, Tharu, Tamang
C) Nepali, Maithili, Bhojpuri, Tharu, Tamang
D) Nepali, Maithili, Bhojpuri, Tamang, Tharu

19. Who won the Madan Puraskar thrice in his life?
A) Bhairav Risal B) Mohan Mainali
C) Madhav Prasad Ghimire D) Satya Mohan Joshi

20. The Treaty of Sugauli led to which of the following outcomes?
A) Start of Rana regime
B) Loss of one third of Nepal's territory to British
C) Unification of Nepal
D) Introduction of Federalism

21. What was Jayasthiti Malla famous for?
A) Expanding territory B) Building Pashupatinath temple
C) Reforming caste and legal system D) Starting formal education

22. What was the name of Atom Bomb dropped in Hiroshima in 1945 AD?
A) Little Man B) Little Boy C) Fat Man D) Fat Boy

23. On 20 May, 2020, Nepal released a new map of its own territory that expanded its claim of an additional ..... square kilometers.
A) 181 B) 335 C) 353 D) 370

24. Which is the most common gas in nature?
A) Nitrogen B) Hydrogen C) Radon D) Methane

25. Hima River is located in which district?
A) Dolpa B) Humla C) Mustang D) Jumla

26. Which of the following soil types is considered most fertile and ideal for agriculture in Nepal?
A) Himali soil B) Sandy Pebbly soil C) Red Gray soil D) Talaiya soil

27. According to Population Census Report, 2021, the population growth rate of Nepal is .....%.
A) 0.29 B) 0.92 C) 1.15 D) 1.25

28. How many national parks of Nepal are listed in World Heritage Sites?
A) 1 B) 2 C) 3 D) 4

29. Which mountain range does Bhrikuti Peak belong to?
A) Annapurna B) Mahalangur C) Damodar D) Dhaulagiri

30. The highest mountain in Europe is .....
A) Mount Elbrus B) Dylch-Tau C) Koshtan-Tau D) Tetnuldi

Contd...

31. Tap A can fill a cistern in 8 hours. Tap B can empty the same cistern in 10 hours. If the cistern is empty and both the taps are opened simultaneously, in how many hours will they take to fill the tank?
A) 40/9 B) 1/40 C) 40 D) 9

32. The ratio of water and milk in a 30 liters mixture is 7:3. Find the quantity of water to be added to the mixture in order to make this ratio 6:1.
A) 30 liters B) 33 liters C) 36 liters D) 39 liters

33. The equation of a sphere passing through the circle $x^2+y^2+z^2-9=0$, $x+y+z+18=0$ is .....
A) $2(x^2+y^2+z^2-9)+9(x+y+z+18)=0$ B) $x^2+y^2+z^2-9+x+y+z+9=0$
C) $2(x^2+y^2+z^2-9)+x+y+z+18=0$ D) $x^2+y^2+z^2-9+2(x+y+z+18)=0$

34. If the MP = Rs. 540 and discount = 5%, then which one is the SP in that case?
A) Rs. 500 B) Rs. 513 C) Rs. 515 D) Rs. 600

35. $\lim_{x\to 1} \frac{x+x^2+x^3+\cdots+x^{20}-20}{x-1}$ is .....
A) 200 B) 210 C) 220 D) 230

36. The length of the latus rectum of the parabola $y^2 + 8x - 2y + 17 = 0$ is .....
A) 2 B) 4 C) 8 D) 16

37. The eccentricity of an ellipse $\frac{x^2}{25}+\frac{y^2}{9}=1$ is ....
A) 25 B) 9 C) 1 D) 4/5

38. Integrate:
$$\int\left(\frac{1}{x}+\frac{1}{x^2}\right)dx$$
A) $x+2x+c$ B) $logx+2x+c$ C) $logx-\frac{1}{x}+c$ D) $logx-\frac{1}{2x^2}+c$

39. The Fourier series of even function contains .....
A) cosx, secx B) cosx, sinx C) sinx, cosecx D) sinx, tanx

40. The Laplace transform of the hyperbolic function $f(t)=\cosh at$ for $s>a$, where $a\geq 0$ is .....
A) $\frac{1}{2}\left(\frac{s}{s^2-a^2}\right)$ B) $\frac{1}{2}\left(\frac{1}{s^2-a^2}\right)$ C) $\frac{1}{2}\left(\frac{s}{a^2-s^2}\right)$ D) $\left(\frac{s}{s^2-a^2}\right)$

41. The Taylor series generated by $f(x)=cosx$ at $x=0$ is .....
A) $\sum_{n=0}^{\infty}\frac{(-1)^n x^{2n}}{(2n)!}$ B) $\sum_{n=0}^{\infty}\frac{(-1)^n x^{2n}}{2(n!)}$ C) $\sum\frac{x^{2n}}{(2n)!}$ D) $\sum_{n=0}^{\infty}\frac{(-1)^n x^n}{(2n)!}$

42. $f(x)=sinx+cosx$ is .....
A) Odd function B) Even function
C) Constant function D) Neither odd nor even function

43. Which measure of central tendency is most affected by extreme values in a data set?
A) Mean B) Median C) Mode D) All equally

44. The formula to calculate mode for ill-defined case is ....
A) 3median-2mean B) 3mean-2median C) 2median-3mean D) 2mean-3median

45. If the equations of two lines of regression be 3x-2y=12 and 6x-y=5, then the correlation coefficient between x and y is .....
A) 0.25 B) ±0.5 C) 0.5 D) -0.5

Contd...

46. Correlation coefficient between two variables x and y is 0.6, then correlation coefficient between 3x and -y is .....
A) 0.4 B) -0.5 C) 0.6 D) -0.6

47. If four coins are tossed, what is the probability of getting at least three heads?
A) 3/16 B) 1/4 C) 3/8 D) 5/16

48. Which of the following statements is valid for discrete probability distribution?
A) Sum of probability is equal to one B) Area under the curve is equal to one
C) Infinite set of outcomes D) Represented by smooth curve

49. The continuous probability distribution is .....
A) Binomial B) Poisson C) Normal D) t-distribution

50. If the sample size was 50, then standard error was 8 units. How much would be the standard error if sample size was increased to 200?
A) 2 B) 4 C) 8 D) 10

- The End -

उत्तरपुस्तिकामा KEY अनिवार्य रूपमा लेख्नुहोला ।