NATIONAL SCHOOL OF SCIENCES

Lainchaur, Kathmandu

Faculty of Management

Set-A

Entrance Model Question

Time : 30 mins **F.M. 25**

English **10 x 1 = 10**

1. Let us go home, _____?
   a) shall we b) will we c) will you d) shall I
2. They _____ him to cut wood.
   a) got b) made c) had d) make
3. The letter was written _____ red ink.
   a) in b) with c) on d) by
4. You'd better _____ a doctor.
   a) seen b) to see c) see d) seeing
5. The correct spelling is _____.
   a) karnel b) colonel c) colonel d) kornel
6. One of the girls _____ gone out.
   a) have b) are c) has d) is
7. Antonym of brave is:
   a) coward b) army officer c) greedy d) policeman
8. She had never _____ by an insect.
   a) been stung b) been stunged c) was stung d) been stunged
9. The teacher said to me, "You can do if you try".
   a) The teacher told me that she could do if I tried.
   b) The teacher told me that I could do if I tried.
   c) The teacher told me that you can do if you try.
   d) The teacher told me that I can do if I try.
10. What is the passive form of: The painter paints the wall.
    a) The wall is being painted by the painter.
    b) The wall is painted by the painter.
    c) The wall has been painted by the painter.
    d) The wall was being painted.

Mathematics **10 x 1 = 10**

11. The possible number of subsets for a set P is 16 then the set P is
    a) $P = \{a, b\}$ b) $P = \{a, b, c\}$ c) $P = \{a, b, c, d\}$ d) $P = \{a, b, c, d, e\}$
12. What is the simple interest earned on Rs.4000 at the rate of 10% yearly for 18 months?
    a) Rs.300 b) Rs.400 c) Rs.500 d) Rs.600
13. If $a: b = 2: 5\ and\ a: c = 1: 4$. Then $b: c =$?
    a) $1: 10$ b) $5: 8$ c) $1: 5$ d) $1: 2$
14. The H.C.F. of $a^3 - 1\ and\ \ a^4 + a^2 + 1$ is
    a) $a + 1$ b) $a - 1$ c) $a^2 - a + 1$ d) $a^2 + a + 1$

15. If $x^2 + \frac{1}{x^2} = 18$, what is the value of $x - \frac{1}{x}$?

a)4 b)± 4 c)2 d)± 2

16. What is the ratio of circumference to diameter of the circle?

a) $\pi : 1$ *b)* $2\pi : 1$ c) $\pi : 2$ *d)* $2 : \pi$

17. What is the total surface area of a cubical tank of length of side 10 m?

a) $600m^2$ b) $500m^2$ c) $400m^2$ d) $300m^2$

18. If lines represented by the homogeneous equation $3x^2 - 5xy - by^2 = 0$ are orthogonal then

a) $b = 3$ b) $b = 15$ c) $b = -3$ d) $b = -\frac{25}{12}$

19. If $\bar{X} = 150, N = 10$, then the value of $\sum fx$ is

a) 24 b) 600 c) 1200 d) 1500

20. From the normal pack of 52 cards, a card is drawn at random, the probability of getting a king is...

a) $\frac{1}{4}$ b) $\frac{1}{26}$ c) $\frac{1}{13}$ d) $\frac{1}{2}$

General Knowledge **5 x 1 = 5**

21. सगरमाथाको नेपाली नाम कसले राखेका थिए?

क) बाबुराम आचार्य ख) लेखनाथ पौड्याल ग) टोनी हेगन घ) लक्ष्मी प्रसाद देवकोटा

22. कुलेखानी जलविद्युत आयोजना रहेको स्थान छान्नुहोस्:

क) रसुवा ख) नुवाकोट ग) गोरखा घ) मकवानपुर

23. पशुपतिनाथको मन्दिर कुन शैलीमा निर्माण गरिएको छ?

क) प्यागोडा शैली ख) शिखर शैली ग) स्तूप शैली घ) मुगल शैली

24. नेपालको केन्द्रीय बैंकको नाम के हो?

क) नेपाल राष्ट्र बैंक ख) नेपाल बैंक लिमिटेड ग) नेपाल वाणिज्य बैंक घ) नेपाल विकास बैंक

25. विश्व मजदुर दिवस कहिले मनाइन्छ?

क) मे १ ख) जुलाई ८ ग) जुन ५ घ) अप्रिल १०