

# NATIONAL SCHOOL OF SCIENCES

Lainchaur, Kathmandu

## Faculty of Management

### Entrance Model Question

Set-B

Time: 30 mins

F.M. 25

#### English

10 x 1 = 10

- Somebody had to cover the meeting, \_\_\_\_\_?  
a) doesn't they?                      b) didn't they?                      c) did they?                      d) hadn't they?
- Who made you ..... out of the class?  
a) go    b) to go    c) goes    d) went
- He is sitting \_\_\_\_\_ the table \_\_\_\_\_ the bench.  
a) on, on    b) at, on    c) at, at    d) on, at
- Manish ..... to market every day.  
a) go    b) went    c) gone    d) goes
- Identify the correctly spelled word:  
a) Bureaucracy    b) Burocracy    c) Beureauracy    d) Bureaucracye
- Each of the students \_\_\_\_\_ submitted the assignment.  
a) have    b) are    c) has    d) were
- opposite in meaning of CELEBRATED is .  
a) unknown    b) renowned    c) learned    d) authentic
- If the plural of chief is chiefs, the plural of belief is .....  
a) belief    b) believes    c) believe    d) beliefs
- The indirect form of: He said, "I clean my teeth twice a day." Is .....  
a) He said that he cleaned his teeth twice a day.  
b) He said that he used to clean his teeth twice a day.  
c) He said that he has the habit of cleaning his teeth twice a day.  
d) He said he cleans his teeth twice a day.
- What is the passive form of: The police was questioning the accused yesterday.  
a) The accused was questioning the police yesterday.  
b) The accused was questioned by the police yesterday.  
c) The accused were questioned by the police yesterday.  
d) The accused was being questioned by the police yesterday.

#### Mathematics

10 x 1 = 10

- If the possible number of subsets for a set R is 64, then the number of elements in set R is:  
a) 4    b) 5    c) 6    d) 8
- What is the simple interest earned on Rs. 12,000 at the rate of 8% yearly for 9 months?  
a) Rs. 960    b) Rs. 720    c) Rs.840    d) Rs. 600
- If  $x:y = 3:4$  and  $x:z = 2:5$ . Then  $y:z = ?$   
a) 3:10    b) 8:15    c) 15:8    d) 4:5
- The H.C.F. of  $x^3 - 64$  and  $x^2 - 16$  is:  
a)  $x - 4$     b)  $x + 4$     c)  $x^2 + 4x + 16$     d)  $(x - 4)^2$
- If  $x^2 + \frac{1}{x^2} = 14$ , what is the positive value of  $x - \frac{1}{x}$ ?  
a) 3    b) 4    c) 5    d) 16

16. If the radius of a circle is doubled, the ratio of the new area to the original area is:  
 a) 2: 1                      b) 4: 1                      c) 1: 2                      d) 8: 1
17. What is the total surface area of a cubical tank if its volume is  $216 \text{ m}^3$ ?  
 a)  $216\text{m}^2$                       b)  $144\text{m}^2$                       c)  $36\text{m}^2$                       d)  $180\text{m}^2$
18. If lines represented by the homogeneous equation  $kx^2 + 4xy - 5y^2 = 0$  are orthogonal, then:  
 a)  $k = 4$                       b)  $k = 5$                       c)  $k = -5$                       d)  $k = 0$
19. If  $\bar{X} = 45, N = 20$ , then the value of  $\sum fx$  is  
 a) 450                      b) 900                      c) 1000                      d) 90
20. From a normal pack of 52 cards, the probability of getting a red queen is:  
 a)  $\frac{1}{13}$                       b)  $\frac{1}{26}$                       c)  $\frac{1}{52}$                       d)  $\frac{1}{4}$

### General Knowledge

5 x 1 = 5

21. नेपालको राष्ट्रिय गान कसले लेखेका हुन्?  
 क) पारसमणि प्रधान      ख) बैरागी काँडला      ग) व्याकुल माइला      घ) परशु प्रधान
22. क्षेत्रफलको आधारमा नेपालको सबैभन्दा ठूलो जिल्ला कुन हो?  
 क) हुम्ला      ख) डोल्पा      ग) मुगु      घ) मुस्ताङ
23. जानकी मन्दिरलाई अर्को के नामले चिनिन्छ?  
 क) धनुषा धाम      ख) नौलखा मन्दिर  
 ग) जनकनन्दिनी कुञ्ज      घ) अयोध्या धाम
24. नेपालको सबैभन्दा पछिल्लो राष्ट्रिय निकुञ्ज कुन हो?  
 क) बर्दिया      ख) पर्सा      ग) बाँके      घ) शुक्लाफाँटा
25. नेपालमा संविधान दिवस कहिले मनाइन्छ?  
 क) असोज ३      ख) फागुन ७      ग) वैशाख ११      घ) असोज ५