HIMALAYA ^{DA}RSHAN COLLEGE

2079

Full Marks: 100 Pass Marks: 50

Time: 3 Hours

BIM / First Semester / ENG201: ENGLISH

Pre-Board EXAMINATION Group "A'

Brief Answer Questions

10*2-20

- a. Discuss the central idea of the poem "The lunatic"
- b. Define the terms simile and metaphor
- e. Make a character sketch of the central character of 'The Company Man'
- d. Discuss the theme of Imperialism in "shooting an elephant
- e. Rewrite the sentences in direct speech
 - The teacher said one of the students has done an excellent job.
 - The principal forbade the pupils to jump over the wall.
- f. Write the past participle of the given verbs
 - i. Bite ii. put
- g. Choose the correct word to complete sentences a-f
 - i. Our marketing strategy is decided/based on a tried and tested system.
 - ii. Many senior citizens have contacted us to enquire/discuss about the new tax
- h. Correct the modal verbs in these sentences
 - i. Surely you mustn't be retiring this year? You look so young!
 - ii. You mustn't make up your mind about the job offer yet if you don't want
- i. What is the tone of the poem "The parrot in the cage"?
- j. Make sentences using these expressions: i. Loose End ii. Make Ends Meet

Group "B"

Attempt any six Questions

(6x5=30)

- 1. What gender roles should a boy and girl perform in Nepal? Discuss.
- 2. "The Hundredth Dove" depicts the conflict between the mind and the heart. Elaborate
- 3. According to you, has the god created in jest or in the earnest? Give appropriate examples to justify your opinion.
- 4. Complete the sentences using correct form of verb:
 - i. My neighbor couldn't stop because his bus ____ (leave) and he didn't want to miss it.
 - ii. For the past six weeks, I ____ (have) singing lessons. ، کل ،
 - iii. I can't phone you at that time because I (travel) on the underground.
 - iv. The photocopy machine ' ____ (break down) twice already and it's not even lunchtime.
 - v.. As a rule, we _____ (spend) part of each summer at my parents' house.
- 5. Complete a-e with phrasal verbs formed from these verbs plus up or down Break set put bring turn
- i. If you haven't got enough room, we can _____ your relatives for the night.

n His	intent	Person	harmon in horninger				
	intention is to use the inherita		his own business	4			
iii. Pro	otesters are infeatening to	the gov	ernment it their demand	5.5			
aren I	met .						
iv Pol	lice the demonstration	by firing tear	gas into the crowd				
	vas the thought of commuting			b			
6 Here	I love you' is a gloomy expres	ssion by a true	lover Elaborate				
Comp	dete sentences a-h with one of	the preposition	s below and an				
appro	priate gerund			-			
	for to of in						
a	I'm not very keenv you insist	when the sea is	this rough but I'll come if				
Ь:	Are you looking forward	Calmantina					
C.	Are you looking forward School and getting a job? In trying to take a shortcut across the fields, we only succeeded completely lost.						
	completely lost	cross the fields	we only succeeded				
d	apologize profusely						
C.	My Classmator in	you wanting it	the cold for so long.				
	said I didn't want one	me a birthd	ay present even though I				
	Group	C.,					

Attempt any three questions

- One of your friends has applied for the position of ECA Coordinator at a reputed school in Biratnagai. Prepare a reference letter for him
- Write an essay on "The Impact of Science and Technology in the 21st
- You are on a planning committee representing Nepal for an international cultural festival in London. Prepare a proposal to participate in an international cultural festival
- Make a critical analysis of the poem "All Pervading Poelty"

Group "D"

Read the given passage and do the exercise that follows (20*1=20)

The fact that millions of people spend billions of hours playing games on their mobile devices is not lost on companies looking for ways to enhance communication with employees and customers. Whether they feature skill, chance, or a compelling story line, successful games try to engage users intellectually and emotionally-just as successful business companies try to do.

Gamification is the addition of game-playing aspects to an activity or a process with the goal of increasing user engagement, and it's a natural fit for social media and mobile devices. Four square's check-in competitions, in which the person who "checks in" using Foursquare most times during a certain time window is crowned the "mayor" of that location, were an early use of gamification. Foursquare wasn't invented as a way for people to become imaginary mayors of places where they shop or eat, of course. It is an advertising platform that relies on user activity and usergenerated content, and the game element encourages people to use the app more requently.

business communication platforms. On a customer-service system, the software rewards employees for increasing their productivity, meeting their services commitments to customers, and sharing knowledge with their colleagues. On several collaborations and brainstorming systems, gamification encourages people to make more connections, share ideas, and boost their influence within a community. Employee orientation systems can use game concepts to help new hires learn their way around the organization

Gamification is also a key strategy for many companies trying to improve customer loyalty. Badgeville's Reputation Mechanics System, for example, boosts the profile of knowledgeable customers who share expertise on social media sites and other online forums. By rewarding their product champions this way, companies encourage them to keep contributing their expertise, thereby helping other customers be successful and satisfied.

Incidentally, if you are in the Millennial generation- those born between about 1981 and 1995- you're a special target of gamification in the workplace and the marketplace, given your generation's enthusiasm for video games. Don't be surprised to find more gamified apps and systems on the job and everywhere you turn as a customer.

Questions

- a. Gamification is about influencing employee and customer behaviors in a way that benefits a company. Is this ethical? Explain your answer
- Assume a company provides a job-search game app that helps you to navigate your way through applying for a job, explore various job openings, and understand what it would be like to work there. Would the app make you feel more positively about the company, or would you find that using a game for this purpose would trivialize something as important as your job search? Explain your answer

game me people spend billions of hours
games on their mobile. helps to commit
with employees find the jon because to
mes gamification, charing knowledge s
boot their influence.

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Full Marks: 60 Pass Marks: 30 Time: 3 Hours

BIM / First Semester / IT 232: C Programming

Pre-Board EXAMINATION Group A

1. Brief Answer Question:

 $[10 \times 1 = 10]$

- What is a double pointer? Give example.
- ii. When you pass an array myArray to a function, what is actually being passed?
- iii. Is a ternary operator (?:) is an option of using if ...else statement? Illustrate
- iv. Why p++ executes faster than p=p+1?
- v. What happens when you assign a fractional number to an integer variable?
- vi. Can a function return more than one value?
- vii. What does a pre-processor directive #define do?
- viii. Write the use of Link section in a C Program?
- ix. What is the problem wrong, with following piece of code?
- int main()

 - i int a = 10;int a = 12,
 - printf("Value of%d",a);
 - return 0;
- c. What will be theoutput of following code? Illustrate.

```
ser apar 41 1,5,7,0,111.
        Prount current value "admNext Value - %d", *p, *(p+2)).
                            Group "B"
   Shert Answer Questions (Attempt any Five): [5×3=15]
 3 Write a program to check if an input character is uppercase
    alphabet, lowercase alphabet, whitespace or digit
If rite a program to print "Hello C" 10 times using a function
A rite a program to reverse a user input number.
5. Write a program to print the product of all the elements of an
  array using pointer
Write a program to check if a number is negative, positive or
 cert using switch case ~
What will be the output of following program? musume with
 perations
 finelude<stdio.h>
int main()
    int i = 0:
    do'
           if(i++==2)
                 printf("Value of i = \%d n",i);
   !while(i<3);
  printf("All Done !!");
 return 0:
```

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Full Marks: 100

Time: 3 Hours

BIM / First Semester / MGT 231:Foundation Of Business Management

Pre-Board EXAMINATION

Group A

Very short question $(2 \times 10 = 20)$ marks

- 1) What is delegation of authority and decentralization?
- Define work work diversity with suitable example.
- Define effective communication .
- 4) Define single use and standing use planning.
- 5) what is business environment? Provide any 2 examples of internal and external environment.
- 6) state any 4 elements of organizational architecture.
- 7) state different types of conflicts
- 8) why is controlling required?
- Define organizational culture
- what do you mean by centralization and decentralization.

Short question ($5 \times 6 = 30$)

- What is planning? Explain the steps in planning process.
- 2) Explain system theory of management with its pros and cons.
- Explain various roots of unethical behavior in an organization.
- 4) Describe the process of rational decision making.

- 5) What are main service sector industries in Nepal? Explain their economic contribution
- (1) Explain the major skills required for a manager for running an or amzation
- 7. Describe "the bureaucratic theory of management

Long question $(3 \times 10 = 30)$

- Frexplain in detail all the areas of social responsibility of a business in satization
 - 2) describe the basis of classification of plan in an organization
- explain why cultural integration is essential in business organization. what are the consequences of ignoring cultural integration during taet ters?
- 4) Explain the barriers of effective communication and suggest such measures to overcome such barriers.

Case study

20 marks

Pa-limina export revenues falling despite government incentives

Pasamian export revenues are going downhill even though the government has given the sector high priority because it is one of the co-entry's major export earners, said government officials at a programme

Products made of the fine wool have been identified as one of the major export items in the Nepal Trade Integration Strategy 2016, a government programme to boost exports. The government has been providing cash it a figures of 3-5 percent to exporters of products listed as having high is government also provides each support to register Jine Tryangra Pashmina collective trademark in foreign countries. The bran has been registered in 47 countries 35 far as per in Nepal

Pasa nina Industries Association. Despite presemment sepport, postumna ship ments have been declining every year. According to Nepal Pastra

Bank records, export revenues stood at Rs2 45 billion in fiscal 2016-17.

Which came down to Rs2.28 billion in fiscal 2017-18. Shipments in the first eight months of fiscal 2018-19 ending mid-July were valued at Rs1 52 billion, down 1 14 percent year-on-year. Sharad Bickrain Rana. Rs1 52 billion, down 1 14 percent year-on-year. Sharad Bickrain Rana. Rs1 52 billion, down 1 14 percent year-on-year. Sharad Bickrain Rana. Rs1 52 billion down 1 14 percent year-on-year. Sharad Bickrain Rana. Rs1 52 billion down 1 14 percent year-on-year. Sharad Bickrain Rana. Rs1 52 billion down 1 14 percent year-on-year. Sharad Bickrain Rana. Rs1 52 billion down 1 14 percent year-on-year. Sharad Bickrain Rana. Rs1 52 billion down 1 14 percent year-on-year. Sharad Bickrain Rana. Rs1 52 billion down 1 14 percent year-on-year. Sharad Bickrain Rana. Rs1 52 billion down 1 14 percent year-on-year. Sharad Bickrain Rana. Rs1 52 billion down 1 14 percent year-on-year. Sharad Bickrain Rana. Rs1 52 billion down 1 14 percent year-on-year. Sharad Bickrain Rana. Rs1 52 billion down 1 14 percent year-on-year. Sharad Bickrain Rana. Rs1 52 billion in fiscal 2017-18. Shipments in the sector of the Trade and Export Promotion Centre. Said there executive director of the Trade and Export Promotion Centre. Said there executive director of the Trade and Export Promotion Centre. Said there executive director of the Trade and Export Promotion Centre. Said there executive director of the Trade and Export Promotion Centre. Said there executive director of the Trade and Export Promotion Centre. Said there executive director of the Trade and Export Promotion Centre. Said there executive director of the Trade and Export Promotion Centre. Sharad Bickrain Rana. Rs1 52 billion in fiscal 2018-19 ending mid-July were valued at the said there executive director of the Trade and Export Promotion Centre. Sharad Bickrain Rana. Rs1 52 billion director of the Trade and Export Promotion Centre. Sharad Bickrain Rana. Rs1 52 billion director of the Trade and Export Promotion

According to the association, almost all the pashmina yarn needed to manufacture the product is imported mainly from China Manang.

Mustang and Dolpa districts are the largest producers of pashmina among the 14 districts in the country where this product is made. These three districts can produce at least 4 tonnes of pashmina annually.

Rana highlighted the need to transfer export earnings to the grass roots level. "Apart from promoting the product by branding, traders should focus on improving the design and quality to boost exports," he said Durga Bikram Thapa, president of the Nepal Pashmina Industries Association, said counterfeit products were currently a major worry for the industry.

"A number of unscrupulous traders have been selling shawls made of viscose and polyester under the brand," said Thapa. He gave the example of Nepal's woollen carpet industry which went from boom to bust in the last decade due to the failure to maintain quality. Thapa said fake goods were being sold mainly in key tourist centres like Thamel. Kathmandu. According to him, a government team led by the Trade and Export Promotion Centre inspected the area six months ago and

the deck such malpractices to protect the sector," he added The Finance ideas and the International organisations of as the World Bank and the International Trade Centre, a state of meluding chyangra farming under its Nepal Livestock Sector ovation Project for 2017-23. The International Trade Centre provided Smillion to improve the quality of production and design and properly to control of the Pashmina Enhancement and Trade Support project. The project lass ed from 2014 till 2017. It was supposed to extend the second properly pashmina sector, said stakeholders.

Cuestions

**Critically analyze the possible cause of decreasing pashmina export

it is the pashmina industry in Nepal being affected due to branding imagement? Discuss

HIMALAYA DARSHAN COLLEGE 2079

Full Marks: 60

Pass Marks: 30

Time: 3 Hours

BIM/ FIRST Semester / IT212: Fundamental Of Information Technology

Pre-Board EXAMINATION Group A

Brief answer questions

Attempt all questions.

(10*1=10)

1 Define Search Engine.

2. Why Router is known as inter connection networking device.

Define Utility Software.

4. Define Encryption and Decryption process.

Jeffine Spyware.

Mhat is Boot-sector virus.

Define Big data.

, 8. Draw OSI model.

Define TCP/IP.

10. Define ETL.

Group B

Short Answers Questions.

Attempt any five questions.

(5*3=15)

11. Explain ANN.

12. Explain history of computer.

13. Explain HTTP with diagram.

14 Difference between Static RAM and Dynamic RAM.

15 Explain the characteristics of Data Warehouse in detail. 16. Explain Static and Dynamic Web Page.

Group C

Long Answer Questions.

Attempt any three questions.

(3*5=15)

- 17. Explain different types of database models.
- 18. Explain OSI model with figure.
- 19. Explain Router, Switch and Bridge in detail. (compulsory question)
- 20. Explain Computer virus with types.

Group D

Comprehensive Questions

Attempt all questions.

(2*10=20)

- , 21. Explain Guided and Unguided media in detail with respective diagram.
- 22. Explain different types of Internet Protocols with respective diagram.

HIMALAYA DARSHAN COLLEGE 2079

Full Marks: 100 Pass Marks: 50

Time: 3 Hours

BIM / FIRST Semester / MTH201: Basic Mathematics

Pre-Board EXAMINATION

Group A [10×2=20]

Attempt all questions. (Brief Answer questions)

- 1. In a survey report of 600 families, 450 families use filter water and 480 families use boiled water. how many families use both type of water?
- 2. Use absolute value sing for the inequality: $-\frac{2}{3} \le x \le \frac{1}{2}$.
- 3. What is the polar form of a complex number? Define with an example.
- 4. If $\lim_{x\to a} \frac{x^4 a^4}{x a} = 32$, find the value of a.
- 5. Find the average rate of change in the profit $P(x) = 3x^2 + 5$ (in rupees) for a change in the outputs from $x_1 = 5$ units to $x_2 = 7$ units.
- 6. Find 5 A^T, for the matrix $A = \begin{bmatrix} 3 & 2 & 6 \\ 4 & 5 & 7 \end{bmatrix}$
- 7. Integrate: $\int_{t-2}^{t-2} dt$.

8. Determine the order and degree of the differential equation: y =

$$\sqrt{\left(\frac{dy}{dx}\right) + \left(\frac{d^2y}{dx^2}\right)^3}.$$

- 9. If $\vec{a} = (1,3)$ and $\vec{b} = (-2,3)$, find $2\vec{a} 3\vec{b}$, and a unit vector along $2\vec{a} 3\vec{b}$.
- 10 Without expanding show that: $\begin{vmatrix} 42 & 1 & 6 \\ 28 & 7 & 4 \\ 14 & 3 & 2 \end{vmatrix} = 0$

Attempt any six questions. (Short answer type questions)

11 (a) Find the cube roots of unity by using De-Mover's theorem.

(b) If
$$\sqrt{a-ib} = x - iy$$
, then prove that: $\sqrt{a+ib} = x + iy$.

12 A function f(x) is defined as:

$$f(x) = \begin{cases} 2x^2, & \text{for } x < 2 \\ 5, & \text{for } x = 2 \\ 4x, & \text{for } x > 2 \end{cases}$$
 is the function continuous at $x = 2$? If

not, how can you make it continuous.

- 13. If $f(x) = \frac{ax-2}{x+b}$, $\lim_{x\to 0} f(x) = 1$ and $\lim_{x\to \infty} f(x) = 3$, the show that f(6) = 4.
- 14. Find $\frac{dy}{dx}$ of the following functions.

(a)
$$y = x^x$$
 (b) $x = e^{t^2}$, $y = e^{2t}$

15. Evaluate the following integrals:

(a)
$$\int \frac{x^3 + 2x^2 + x + 2}{(x+1)^2} dx$$

(b)
$$\int (\log x)^2 dx$$

- 16. Solve the following differential equation: $\frac{dy}{dx} + ay = e^{inx}$, y(0) = 0
- 17. Prove that the vectors: $-\vec{a} + 4\vec{b} + 3\vec{c}$, $2\vec{a} 3\vec{b} 5\vec{c}$ and $2\vec{a} + 4\vec{b} 3\vec{c}$ are coplanar, where \vec{a} , \vec{b} and \vec{c} are three vectors.

$$Group - C[3 \times 10 = 30]$$

- 18. In a class of 60 students 29 participated in basketball, 16 in hockey, 35 in baseball, 10 in both basketball and hockey, 12 in both hockey and baseball, 11 in both basketball and baseball, 7 took part in alt three games, then find:
 - (a) The number of students, who did not take part in all three games.
 - (b) The number of students who took part in exactly two games.
 - (c) The number of students involving in at least one games.
- 19. Fit a straight-line Trend by the method of least squares from the following data. Also calculate the Trend values. Graph them.

Years	2005	2006	2007	2008	2009
Sales (000 Rs)	20	22	25	29	34
Daios (ded 120)					

Estimate the sales for the year 2010.

20. Solve the following system of equations, by using Inverse matrix method.

$$2x - y + 3z = 9$$
, $x - y + z = 2$, $x+y+z = 6$

21. The demand all supply function under perfect competition are: $P_d = 120\text{-}4Q$ and $P_s = 5Q \pm 60$, respectively, where P and Q denote price \cdot

and Quantity. Find the consumer's surplus, producer's surplus and total surplus.

$$Group - [1 \times 20 = 20]$$

Comprehensive Answer questions.

[6+6+6+2]

110

- 22. Let the total cost function of a firm be given as : $C(x) = 300x 10x^2 + \frac{1}{3}x^3$, where x is an output, Finds:
 - (a) The minimum value of the marginal cost function.
 - (b) The minimum value of average cost function.
 - () The output at which marginal cost is equal to the average cost.
 - (d) Show that the marginal cost and a verage cost are equal at the minimum average cost.

Best of Luck!