

UNIVERSITY OF NORTH BENGAL

B.Sc. Minor/Dsc 2nd Semester Examination, 2025

MATHMIN202/MATHDSC202-MATHEMATICS

CALCULUS AND GEOMETRY

Time Allotted: 2 Hours 30 Minutes

Full Marks: 60

The figures in the margin indicate full marks.

GROUP-A / विভाগ-क / समूह-क

- 1. Answer any *four* questions from the following: $3 \times 4 = 12$ নিম্নলিখিত যে-কোন চারটি প্রশ্নের উত্তর দাওঃ क्नै चार प्रश्रहरूको उत्तर देऊः (a) Find the area of the region bounded by the curve $y = x^2$ and $x = y^2$. 3 $y=x^2$ এবং $x=y^2$ বক্ররেখাদ্বারা আবদ্ধ ক্ষেত্রের ক্ষেত্রফল নির্ণয় কর। व्रक $y = x^2$ अनि $x = y^2$ ले घेरेको क्षेत्रको क्षेत्रफल निर्णय गर। (b) Obtain the equation of the sphere for which the circle $x^2 + y^2 + z^2 + 7y - 2z + 2 = 0$, 2x + 3y + 4z = 8 is a great circle. গোলকের সমীকরণ নির্ণয় কর যার জন্য বৃত্ত $x^2+y^2+z^2+7y-2z+2=0$, 2x+3y+4z=8 একটি great বৃত্ত। वत्त $x^2 + y^2 + z^2 + 7y - 2z + 2 = 0$, 2x + 3y + 4z = 8 एउटा ठूलो वृत्त भएको अण्डवृत्तको समीकरण निर्णय गर। 3 (c) If $y = \tan^{-1} \frac{x}{a}$, then find y_n . যদি $y = \tan^{-1} \frac{x}{a}$ হয় তবে y_n নির্ণয় কর। यदि $y = \tan^{-1} \frac{x}{a}$, y_n निर्णय गर। (d) Evaluate: $\lim_{x\to 0} \frac{\sin x - x + x^3/6}{x^5}$ 3 নির্গয় করঃ $\lim_{x\to 0} \frac{\sin x - x + x^3/6}{x^5}$ $\lim_{x\to 0} \frac{\sin x - x + x^3/6}{x^5}$ निर्णय गर। (e) Find the envelope of the family of straight lines $y = mx + \sqrt{a^2m^2 + b^2}$, m being 3
 - the parameter. $v = mx + \sqrt{a^2m^2 + b^2}$, m একটি parameter সরলরেখাসমূহের envelope নির্ণয় কর। m प्यारामिटर भएको सरल रेखाहरूको कूल $y=mx+\sqrt{a^2m^2+b^2}$ को एनवेलप निर्धारण गर।

Turn Over

2086/2087

FYUGP/B.Sc./MIN/DSC/2nd Sem./MATHMIN202/MATHDSC202/2025

(f) Determine the conic represented by $3x^2 + 10xy + 3y^2 - 2x - 14y - 13 = 0$. $3x^2 + 10xy + 3y^2 - 2x - 14y - 13 = 0$ দ্বারা নির্ধারিত conic নির্ণয় কর। $3x^2 + 10xy + 3y^2 - 2x - 14y - 13 = 0$ लाई प्रतिनिधित्व गर्ने शांकव निर्धारण गर ।

GROUP-B / विভाগ-খ / समृह-ख

Answer any four questions from the following: 2. নিম্নলিখিত যে-কোন চারটি প্রশ্নের উত্তর দাওঃ

 $6 \times 4 = .24$

कुनै चार प्रश्नहरूको उत्तर देऊः

(a) Show that the points of inflexion of the curve $y^2 = (x-a)^2(x-b)$ lie on the line

6

দেখাও যে, $y^2 = (x-a)^2(x-b)$ বক্রবেখার points of inflexion 3x+a=4b সরলরেখার

वक्र $y^2 = (x-a)^2(x-b)$ को inflexion को विन्दु रेखा 3x+a=4b मा छ पनी प्रमाण गर।

(b) If $y = a\cos(\log x) + b\sin(\log x)$, show that

6

 $x^{2}y_{n+2} + (2n+1)xy_{n+1} + (n^{2}+1)y_{n} = 0$

যদি,
$$y = a\cos(\log x) + b\sin(\log x)$$
 হয় তবে দেখাও যে,

$$x^{2}y_{n+2} + (2n+1)xy_{n+1} + (n^{2}+1)y_{n} = 0$$

यदि $y = a\cos(\log x) + b\sin(\log x)$, प्रमाण देखाऊ

$$x^{2}y_{n+2} + (2n+1)xy_{n+1} + (n^{2}+1)y_{n} = 0$$

(c) State and prove Leibnitz theorem for successive derivative of product of two functions.

1+5

দুটি function-এর গুণফলের ক্রমাগত অবকলনের Leibnitz উপপাদ্যটি বিবৃত কর এবং প্রমাণ

दुईवटा फलनहरूको गुणनको क्रमिक derivative को Leibnitz को उपपाद्य उल्लेख अनि प्रमाण गर।

(d) If $I_n = \int_0^{\pi/2} x \sin^n x \, dx$, n > 1 show that, $I_n = \frac{n-1}{n} I_{n-2} + \frac{1}{n^2}$. Hence evaluate

$$\int_{0}^{\pi/2} x \sin^5 x \, dx \, .$$

যদি $I_n = \int\limits_0^{\pi/2} x \sin^n x \, dx$, n > 1 হয় তবে দেখাও যে, $I_n = \frac{n-1}{n} I_{n-2} + \frac{1}{n^2}$ ।

অতঃপর
$$\int_{0}^{\pi/2} x \sin^5 x \, dx$$
 নির্ণয় কর।

यदि $I_n = \int\limits_{-\infty}^{\pi/2} x \sin^n x \, dx$, n>1 भए प्रमाण गर $I_n = \frac{n-1}{n} I_{n-2} + \frac{1}{n^2}$. निर्णय गर

$$\int_{0}^{\pi/2} x \sin^5 x \, dx \, .$$

FYUGP/B.Sc./MIN/DSC/2nd Sem./MATHMIN202/MATHDSC202/2025

- (e) Find the equation of the parabola whose focus is at (3, -4) and directrix as the line x+2y-2=0.
 অধিবৃত্তের সমীকরণ নির্ণয় কর যার নাভি (3, -4) এবং নিয়ামকের সমীকরণ x+2y-2=0.
 नाभि (focus) (3, -4) भएको अनि directrix रेखा x+2y-2=0 भएको परवलयको समीकरण निर्णय गर।
- (f) Find the volume of the solid generated by the revolution of the cardioide $r=a(1+\cos\theta)$ about the polar axis. $r=a(1+\cos\theta) \text{ এই cardioide উহার মেরু অক্ষের সাপেক্ষে আবর্তের ফলে যে ঘনবস্তুটি তৈরী করে তার আয়তন নির্ণয় কর। } কার্তিয়াই্ড <math>r=a(1+\cos\theta)$ লার্হ ध्रुवीय अक्षमा परिक्रमा गर्दा उत्पन्न भएको ठोस् को आयतन निर्णय गर।

GROUP-C / विভाগ-গ / समूह-ग

- Answer any two questions from the following:
 12×2 = 24
 নিম্নলিখিত যে-কোন দুটি প্রশ্নের উত্তর দাওঃ
 কুল বুর্র্ সম্বন্ধকটা তথ্য বক্ত:
 - (a) (i) Prove that the envelope of the family of circles passing through the origin and having centres situated on the hyperbola $x^2-y^2=c^2$ is $(x^2+y^2)^2=4c^2(x^2-y^2)$. প্রমাণ কর যে, বৃত্তসমূহ যারা মূল বিন্দুকে স্পর্শ করে এবং যাদের কেন্দ্র পরাবৃত্ত $x^2-y^2=c^2$ এ অবস্থিত তাদের envelope-এর সমীকরণ $(x^2+y^2)^2=4c^2(x^2-y^2)$. उत्पत्ति बाट पार भएको अनि केन्द्र अतिपरवलय $x^2-y^2=c^2$ मा स्थित भएको वृत्तहरूको कुलको एनवलेप $(x^2+y^2)^2=4c^2(x^2-y^2)$ हुन्छ भनी प्रमाण गर।
 - (ii) Find all the asymptotes of the curve $4x^3-3xy^2-y^3+2x^2-xy-y^2-1=0$. $4x^3-3xy^2-y^3+2x^2-xy-y^2-1=0 \ \text{বক্লের সমস্ত asymptotes নির্ণয় কর।}$ বুক $4x^3-3xy^2-y^3+2x^2-xy-y^2-1=0$ को अनन्तस्पर्शकहरू निर्णय गर।
 - (b) (i) Discuss the nature of the conic $4x^2 + 4xy + y^2 12x 6y + 5 = 0$. 6 $4x^2 + 4xy + y^2 12x 6y + 5 = 0$ conic-এর প্রকৃতি আলোচনা কর। शांकव $4x^2 + 4xy + y^2 12x 6y + 5 = 0$ को प्रकृति छलफल गर।
 - (ii) Show that the straight line $r\cos(\theta-\alpha)=p$ touches the conic $\frac{l}{r}=1+e\cos\theta$, if $(l\cos\alpha-ep)^2+l^2\sin^2\alpha=p^2$. (দেখাও যে $r\cos(\theta-\alpha)=p$ সরলরেখা $\frac{l}{r}=1+e\cos\theta$ conic কে স্পর্শ করবে যদি, $(l\cos\alpha-ep)^2+l^2\sin^2\alpha=p^2$ হয়। सरल ऐखा $r\cos(\theta-\alpha)=p$ ले शांकव $\frac{l}{r}=1+e\cos\theta$ लाई स्पर्श गर्छ यदि $(l\cos\alpha-ep)^2+l^2\sin^2\alpha=p^2$ हुन्छ भनी प्रमाण गर।
 - (c) (i) Find the polar equation of the tangent at any point P of the conic section $\frac{l}{r} = 1 e \cos \theta$.

Turn Over

2086/2087

FYUGP/B.Sc./MIN/DSC/2nd Sem./MATHMIN202/MATHDSC202/2025

 $\frac{l}{r}=1-e\cos\theta$ conic অংশের যেকোন বিন্দু P তে স্পর্শকের মেরু সমীকরণ নির্ণয় কর। शांकव अंश $\frac{l}{r}=1-e\cos\theta$ को कुनै विन्दु P को स्पर्शक को ध्रुवीय समीकरण निर्णय गर।

(ii) If by a rotation of coordinate axes the expressions $ax^2 + 2hxy + by^2 + 2gx + 2fy + c = 0 \text{ is changed to}$ $a'x^2 + 2h'xy + b'y^2 + 2g'x + 2f'y + c' = 0.$

Show that a' + b' = a + b and $a'b' - h'^2 = ab - h^2$.

যদি স্থানাম্ক অক্ষের (coordinate axes) ঘূর্ণনের দ্বারা সমীকরণ $ax^2 + 2hxy + by^2 + 2gx + 2fy + c = 0, \ a'x^2 + 2h'xy + b'y^2 + 2g'x + 2f'y + c' = 0$ তে পরিবর্তিত হয় তবে দেখাও যে, a' + b' = a + b এবং $a'b' - h'^2 = ab - h^2$.

निर्देशांक अक्षहरूको परिक्रमाले यदि राशिमाला $ax^2+2hxy+by^2+2gx+2fy+c=0$, $a'x^2+2h'xy+b'y^2+2g'x+2f'y+c'=0$ मा परिणत हुन्छ भने a'+b'=a+b अनि $a'b'-h'^2=ab-h^2$ हुन्छ भनी प्रमाण देखाऊ।

(d) (i) Find a reduction formula for $\int \frac{dx}{(a+b\cos x)^n}$, *n* being positive integer greater than 1, and $a^2 \neq b^2$. Hence find $\int \frac{dx}{(5+4\cos x)^2}$.

 $\int \frac{dx}{\left(a+b\cos x
ight)^n}$ -এর হাস সূত্র (reduction formula) বের কর যেখানে n, 1-এর থেকে বেশি ধনাত্মক পূর্ণসংখ্যা এবং $a^2 \neq b^2$ । অতঃপর $\int \frac{dx}{\left(5+4\cos x
ight)^2}$ নির্ণয় কর।

 $\int \frac{dx}{\left(a+b\cos x\right)^n}$, n 1 भन्दा ठूलो धनात्मक पूर्णसंख्या अनि $a^2 \neq b^2$, को रिडक्सन् सूत्र निर्णय गर अनि $\int \frac{dx}{\left(5+4\cos x\right)^2}$ निर्णय गर ।

(ii) Find the volume and the area of surface of revolution of the solid obtained by revolving the region enclosed by the curve $y = \sqrt{x}$ and the lines x = 1, x = 4 about x-axis.

 $y=\sqrt{x}$ বক্র এবং x=1, x=4 সরলরেখা দ্বারা আবদ্ধ ক্ষেত্রের x–অক্ষের সাপেক্ষে আবর্তের ফলে যে ঘনবস্তুটি পাওয়া যাবে তার আয়তন ও ক্ষেত্রফল নির্ণয় কর।

6

वक्र $y=\sqrt{x}$ अनि रेखाहरू x=1 , x=4 ले घेरेको क्षेत्रलाई x-axis मा परिक्रमा गर्दा प्राप्त भएको सतहको परिक्रमाको ठोस्को क्षेत्रफल र आयतन निर्णय गर ।

2118_2121



UNIVERSITY OF NORTH BENGAL

B.Com. Minor 2nd Semester Examination, 2025

ACFIMIN202/BMNGMIN202-COMMERCE

	The attendance of the state of	
	BUSINESS COMMUNICATIONS	
Time Al	lotted: 2 Hours 30 Minutes	Full Marks: 60
	The figures in the margin indicate full marks.	
	GROUP-A / বিভাগ-ক / समूह-ক	
	Answer any <i>two</i> questions यে-কোন <i>দৃটি প্রশ্নে</i> র উত্তর দাও कुनै <i>दुई</i> प्रश्नका उत्तर लेख्नु होस्	12×2 = 24
	What do you mean by business communication? Briefly explain about barriers communication. How can you overcome these barriers? व्यवनायिक खांगाराण वनटि कि दाब ? खांगाराण वाशिक वाशि कर। এই वाशिक कि कि वाशिक करा महत्व ? व्यवसायिक संचार भन्नाले के बुझिन्छ ? संचारमा आउने बाधाहरूको बारेमा संक्षेपमा व्याख्या गर्नुहो यी बाधाहरूकाई कसरी हटाउन सिकन्छ ?	ज् त
2.	List a few essential aspects of business communication. Distinguish betwee verbal and non-verbal communication. ব্যবসায়িক যোগাযোগের কিছু অপরিহার্য দিকগুলি উল্লেখ কর। মৌথিক এবং অ-মৌথিক যোগাযোগ	
	शार्थका (नथ। व्यवसायिक संचारका केहि आवश्यक पक्षहरूको सूची तयार गर्नुहोस् । मौखिक र अमौखिक सं बीचको भिन्नता लेख्नुहोस् ।	
3.	How can you make an effective oral presentation? कार्यकात्री মৌখিক উপস্থাপনা किভাবে করা সম্ভব ? तपाई कसरी प्रभावकारी मौखिक प्रस्तुति दिन सक्नु हुन्छ ?	12
4.	Draft a specimen enquiry letter asking for a quotation of computer. What is in office memo? किन्छिंगंत-धत्र (कार्क्षेन्यत्वर्ध) किन्छिंगंत-धत्र कार्या क्रिक्षे किन्य किन्य क्रिक्षे किन्य क्रिक्षे किन्य क्रिक्षे किन्य किन्य क्रिक्षे किन्य क्रिक्षे किन्य किन्	ামো কি ?
	GROUP-B / বিভাগ-খ / समूह-ख	
5.	Answer any four questions: य-कान गति शक्ति উछत मांधः कुनै चार प्रश्नका उत्तर लेखनुहोस् —	6×4 = 24
(a)	What is minutes? State the difference between minutes and agenda. भिनिए कि ? भिनिए-এর সঙ্গে অ্যাজেন্ডার পার্থক্য कि ? मिनेट्स भनेको के हो ? मिनेट्स र एजेन्डा बीचको भिन्नता उल्लेख गर्नुहोस्।	2+4
2110 2	1	Turn Over

FYUGP/B.Com./MIN/2nd Sem./ACFIMIN202/BMNGMIN202/2025 (b) Explain the characteristics of good business report. একটি ভালো ব্যবসায়িক প্রতিবেদনের বৈশিষ্ট্য ব্যাখ্যা কর। एक राम्रो व्यवसायिक प्रतिवेदनको विशेषताहरूको व्याख्या गर्नुहोस्। 3+3 (c) Write short notes on memorandum and tender. মেমোরান্ডাম এবং টেন্ডার-এর উপর টীকা লেখ। मेमोरान्डम र टेन्डरमाथि छोटो टिप्पणी लेख्नुहोस्। (d) Explain the steps to prepare a resume. 6 রিজিউম প্রস্তুতকরণের ধাপগুলি ব্যাখ্যা কর। रिजुमे तयार गर्ने चरणहरूको व्याख्या गर्नुहोस्। (e) Discuss the importance of visual aids in communication. 6 যোগাযোগের ক্ষেত্রে ভিজ্য়াল এইডস-এর গুরুত্ব আলোচনা কর। संचारमा दृश्य सहायकहरूको महत्त्वबारे छलफल गर्नुहोस्। (f) What is social correspondence and why is it important? 2+4 সামাজিক যোগাযোগ কি এবং এর গুরুত্ব কি ? सामाजिक पत्राचार के हो र यो किन महत्त्वपूर्ण छ ? GROUP-C / विভाগ-গ / समूह-ग $3 \times 4 = 12$ Answer any four questions: যে-কোন চারটি প্রশ্নের উত্তর দাওঃ क्नै चार प्रश्नका उत्तर लेख्नुहोस् — 3 (a) What do you mean by encoding? এনকোডিং কি ? एन्कोडिङ भन्नाले के बुझिन्छ ? 3 (b) Explain about 'horizontal communication'. সরলরৈখিক যোগাযোগ ব্যাখ্যা কর। Horizontal communication व्याख्या गर्नुहोस्। (c) Write down atleast three features of 'PowerPoint' presentation. 3 পাওয়ার পয়েন্ট প্রেজেন্টেশনের কমপক্ষে তিনটি বৈশিষ্ট্য লেখ। पावरप्वाइन्ट प्रस्तुतिकरणका कम्तीमा तीन विशेषताहरू लेख्नुहोस्। 3 (d) What are the importance of 'feedback' in communication? যোগাযোগের ক্ষেত্রে ফিডব্যাক-এর গুরুত্ব কি ? संचार प्रतिक्रियाको महत्त्व के हो ? 3 (e) Give a short note on checklist for report. রিপোর্ট তৈরির ক্ষেত্রে চেকলিস্ট-এর উপর একটি টীকা লেখ। प्रतिवेदनको लागि चेकलिस्टबारे छोटो टिप्पणी लेख्नुहोस्। (f) Explain some importance of channels. চ্যানেল্স-এর কিছু গুরুত্ব আলোচনা কর। च्यानलहरूको केहि महत्त्व व्याख्या गर्नुहोस्।



UNIVERSITY OF NORTH BENGAL

SEC 2nd Semester Examination, 2025

SEC - POOBSEC219-COMPUTER SCIENCE

HTML PROGRAMMING

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

GROUP-A

Answer any five of the following

 $1 \times 5 = 5$

- 1. State the use of Line break tag in HTML.
- 2. What do you understand by hyperlink?
- 3. Why tag is used in HTML?
- 4. Write down the use TH, TR and TD tag.
- 5. Write down the use of and tag.
- 6. What is the purpose of the <title> tag?
- 7. Which tag is used to create a numbered list?
- 8. How do you create a password input field?

GROUP-B

Answer any three of the following

 $5 \times 3 = 15$

- 9. Explain the structure of an HTML document.
- 10. Briefly describe various types of headings and paragraph available in HTML.
- 11. Explain the different types of form input fields in HTML with examples.
- 12. Differentiate between ordered lists, unordered lists and definition lists in HTML.
- 13. Explain the tag in HTML.

Write down the html code to create the following table:

Item	Price	
ABC	200	
XYZ	180	
PQR	220	
MNO	300	

GROUP-C

Answer any two of the following

 $10 \times 2 = 20$

- 14. Describe various HTML form elements and their usage with example.
- 15. Design a HTML page describing your CV.
- 16. By using HTML code, create the webpage as follows:
 - (a) Background colour: yellow
 - (b) Title of the page: My Department
 - (c) The logo of your department (From file logo gif) is to be placed at the centre of the page
 - (d) Your department name is to be scrolled on the page from right to left.
- 17. Create a registration form using html that will contain every type of input field. (eg. dropdown, checkbox, textfield etc.)

2



UNIVERSITY OF NORTH BENGAL

AEC 2nd Semester Examination, 2025

AEC-ENGLAEC002-COMPULSORY ENGLISH

ENHANCING READING AND WRITING SKILLS

Time Allotted: 2 Hours 30 Minutes

Full Marks: 60

The figures in the margin indicate full marks.

1. Answer any *two* questions from the following:

 $10 \times 2 = 20$

- (a) Critically appreciate the poem "Daffodils".
- (b) How does Wordsworth use nature in the poem "Daffodils"?
- (c) Discuss the speaker's emotional response to the captain's death and how does the poem convey the speaker's grief and sense of loss in the poem "O Captain! My Captain!".
- (d) Critically analyze the poem "O Captain! My Captain!".
- (e) Discuss the speaker's attitude towards her oppressors in the poem "Still I rise".
- (f) Discuss the significance of the title, "Still I Rise".
- (g) Critically appreciate the poem "Where the Mind is Without fear".
- (h) Analyze the vision of free and enlightened society that Tagore highlight through his poem "Where the Mind is Without fear".
- 2. Answer any *two* questions from the following:

 $10 \times 2 = 20$

- (a) Discuss the character of the old man in the story "Old man at the Bridge".
- (b) What does Hemingway want to convey about the effects of war through the story?
- (c) Discuss the significance of the title "How a Client was Saved".
- (d) How did Gandhiji approach Parsi Rustomji's case, and what principles did he apply?
- (e) Analyze the characters in Dorothy Parker's "The Telephone Call".
- (f) Comment on the ending of "The Telephone Call".
- (g) Analyze the theme of love and sacrifice in the story "The Gift of the Magi".
- (h) Analyze the character of Della in "The Gift of the Magi".
- 3. Answer any *two* questions from the following:

 $10 \times 2 = 20$

- (a) Write a report of a cultural event held in your college.
- (b) Write a paragraph on "Friendship".
- (c) Write a CV to apply for the post of a Teacher in a private school.
- (d) Write a letter to the editor of a newspaper about the necessity of planting more trees in your locality.

1

2011

QUESTION BOOKLET SERIES





QUESTION BOOKLET SET-IV

UNIVERSITY OF NORTH BENGAL

IDC 2nd Semester Examination, 2025

IDC - IACTIDC211-FUNDAMENTALS OF INFORMATION AND COMMUNICATION TECHNOLOGY

Time Allotted: 1 Hour 30 Minutes

2211

Full Marks: 40

Turn Over

The figures in the margin indicate full marks.

Instruction

The candidate should indicate the correct Name, Centre Name, Roll Number, Registration No., Course/Paper

Code, Sheet	Question Booklet will not be evaluate	Series, Question Booklet and the candidate will be	SET on the OMR Ar	iswer-Sheet otherwise	the Answer-
Each Sheet	question has four alt using black/blue ba	ternative answers. The cand allpoint pen indicating the countries then the question will be tree	idate has to darken on	ly one circle/bubble or	the Answer- one answer /
Exam	iple: Correct Me		rong Method: ⊠ Ø		
		Answer all th	he questions	Ē.	1×40 = 40
1.	Which of the following is NOT a characteristic of a computer			?	
	(A) Speed	(B) Accuracy	(C) Storage	(D) Emotion	
2.	What does "com	What does "connecting a keyboard to a CPU" involve?			
	(A) Establishing a network connection (B) Plugging th			keyboard into the C	PU
	(C) Installing so	(C) Installing software		(D) Connecting to a wireless network	
3.	The first generat	ion of computers used		De Contraction of the Contractio	
	(A) Transistors		(B) Integrated circuits		
	(C) Vacuum tube	es	(D) Microprocessors		
4. Which of the following is an example of application software			pplication software?	?	
	(A) Windows OS		(B) Microsoft Word		
	(C) BIOS		(D) Device drivers		
5.	What is the funct	tion of input devices?			
	(A) To input data and commands in a computer				
	(B) To execute programs				
	(C) To display information				
	(D) To store data			,* ,	
6.	Which device is used to display the output from a computer?				
	(A) Keyboard	(B) Mouse	(C) Monitor	(D) Printer	

1 .

7.	Which generation of computers is characterized by the use of microprocessors?					
	(A) First generation		(B) Second genera	(B) Second generation		
	(C) Third generation (D) Fourth generation			tion		
8.	What is the prima	ry function of the CPU i	n a computer?			
	(A) To store data	permanently	(B) To process ins	(B) To process instructions		
	(C) To manage po	ower supply	(D) To display out	put		
9.	Which of the follo	owing is considered an ir	nput device?			
	(A) Monitor	(B) Printer	(C) Keyboard	(D) Speaker		
10.	What is the prima	ry purpose of application	n software?			
	(A) To perform sp	(A) To perform specific tasks for users, like word processing				
	(B) To manage ha	ardware components				
	(C). To provide a	user interface for operati	ng systems			
	(D) To protect the	system from viruses				
11.	Which of the follo	owing is a type of primar	y storage?			
	(A) Hard Disk	(B) Flash Drive	(C) RAM	(D) Optical Dis		
12.	What does ROM	stand for?				
	(A) Read Only Memory		(B) Random Acce	(B) Random Access Memory		
	(C) Read Once Memory		(D) Random Outp	(D) Random Output Memory		
13.	What is the purpo	What is the purpose of a flash drive?				
	(A) To store data permanently		(B) To store data t	(B) To store data temporarily		
	(C) To process data		(D) To display data			
14.	Which of the follo	Which of the following is a type of pointing device?				
	(A) Keyboard	(B) Mouse	(C) Monitor	(D) Printer		
15.	Which of the follo	owing is a volatile memo	ry?			
	(A) ROM	(B) PROM	(C) RAM	(D) EEPROM		
16.	PROM stands for					
	(A) Programmed Read-only Memory		(B) Primary Read-	(B) Primary Read-only Memory		
	(C) Programmable Read-only Memory		(D) Protected Read	(D) Protected Read-only Memory		
17.	CDs store data us:	ing		2 m		
	(A) Magnetic Fields		(B) Laser Technol	(B) Laser Technology		
	(C) Electric Charges		(D) Transistors			
18.	Flash drives use v	what type of memory?				
	(A) ROM	(B) Flash Memory	(C) SRAM	(D) DRAM		
19.	Floppy disks were	e primarily used for				
	(A) Long-term are	chival storage	(B) High-speed da	(B) High-speed data access		
	(C) Portable stora	ge of small files	(D) High capacity	backups		
20.	One major advant	age of network storage i	S	* *		
	(A) Increased loca	al computer storage	(B) Faster access t	han RAM		
	(C) Centralized data management (D) Less			ncy on networks		

21.	Why is software necessary for a Computer S	System?			
	(A) To increase hardware speed	(B) To connect hardware physically			
	(C) To make hardware functional	(D) To improve display quality			
22.	Which of the following is an example of sy	stem software?			
	(A) MS Word	(B) Google Chrome			
	(C) Windows 10	(D) Adobe Photoshop			
23.	Which component of OS keeps track of ever	ery file in the system?			
23.	(A) File Manager (B) Task Manager	(C) Scheduler (D) Compiler			
24.	Which of the following is an example of an	operating system?			
27.	(A) Oracle (B) Android	(C) MS Office (D) Java			
25.	Disk Defragmenter is used to				
20.	(A) Encrypt files	(B) Clean virus			
	(C) Reorganize data on the disk	(D) Back-up data			
26.	Machine Language is composed of				
20.		(B) Binary codes			
-	(C) Assembly mnemonics	(D) Pseudocode			
0.77	Which of the following is a high level lang				
27.	m; n:	(C) Assembly (D) HEX			
	(/				
28.	Which of these is a benefit of High level la	(B) Platform dependency			
	(A) Machine level control	The strategic st			
	(C) Easy to debug and maintain	(D) Software development			
29.	A Compiler is used to				
	(A) Execute programs directly				
	(B) Translate high level code to machine of	code			
	(C) Debug hardware				
	(D) Manage process				
30.	Which language uses mnemonics for codi	ng?			
50.	(A) Machine Language	(B) High-level-language			
	(C) Natural language	(D) Assembly language			
21		ost relevant to GPS and Satellite mapping?			
31.	(A) ATM (B) GIS	(C) EDI (D) Video conferencing			
20	Which technology can improve patient ca				
32.		(C) Telemedicine (D) Video on demand			
	(/-	(0) 10101110111011			
33.	What makes IoT devices smart?				
	(A) Battery power				
	(B) Ability to connect to the internet and	exchange data			
	(C) Use of touch screen				
	(D) Wireless Charging				
34.	Electronic data interchange is primarily u	sed for			
	(A) Online gaming	(B) Business document exchange			
	(C) Social Networking	(D) Watching videos			
	1000 09				

35.	Which of the following allows users to watch movies and shows wherever they choose?				
	(A) Cable TV		(B) Video on I		
	(C) Live Strea	ming	(D) Satellite T	V	
36.	Which technol real-time?	ogy allows two or more p	eople to communic	ate with both audio and video in	
	(A) Email		(B) Instant Me	(B) Instant Messaging	
	(C) Video Con	ferencing	(D) Voicemail		
37.	A GIS (Geographic Information System) is mainly used for				
	(A) Online me	eting	(B) Processing financial transactions		
	(C) Mapping a	nd Spatial data analysis			
38.	Which of these	is an example of the IoT?			
	(A) a TV remote control				
	(B) a smart thermostat that connects to the internet				
	(C) a landline telephone				
	(D) a video car	nera without Wi-Fi	2.0		
39.	Which of the following is an example of online shopping?				
	(A) Buying groceries at a supermarket		(B) Purchasing clothes from a local store		
	(C) Ordering items from amazon		(D) Visiting a shopping mall		
10.	Which of the purchase orders	following allows businesss?		nsactions such as invoices and	
	(A) GIS	(B) IoT	(C) EDI ··	(D) Cable TV	