

Admissions Handbook

2023



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Welcome to the Student Enrolment Handbook!

We are delighted to introduce you to our comprehensive guide that will assist you and your family in navigating the process of enrolling at Acharya University. This handbook has been carefully designed to provide you with all the essential information, guidelines, and resources you need to ensure a smooth and successful enrolment experience.

Enrolling in a university is an exciting and important step in your educational journey, and we understand that it can also be a time of questions and uncertainty. That's why we have compiled this handbook to serve as your go-to resource, offering insights into our universities' policies, procedures, and expectations. We believe that this handbook will empower you to make informed decisions and fully embrace the opportunities and challenges that life ahead.

Within these pages, you will find a wealth of information about our institution, its history, and our educational programs. We have included details about the enrolment process, including the necessary documentation, deadlines, and admission requirements.

We encourage you to take the time to familiarize yourself with this handbook, as it will serve as a valuable reference throughout your time with us. It will help you understand the expectations we have for our students, the support systems in place, and the resources available to help you thrive academically, socially, and personally.

We believe that education is a partnership between students, parents/guardians, and the school community. By understanding the information contained in this handbook, you will be equipped to actively participate in this collaborative effort, making the most of your educational experience.

We are committed to providing an inclusive, safe, and nurturing environment that fosters academic growth, personal development, and a strong sense of community. We believe that this handbook will serve as a foundation for building that positive educational environment and fostering a culture of respect, responsibility, and excellence.

We look forward to a fruitful partnership and wish you every success as you embark on this new chapter of your academic journey.

Sincerely,

Department of Admissions

Acharya University

Application Process

Step 1: Access the Online application by visiting the Acharya University website www.acharya.uz/applynow fill in the required details. Post clicking 'Register' you will get an Application Reference Number (ARN). Keep the ARN safe for future correspondence. Example: AU/23/35.



Congratulations !!!

You have successfully registered with Acharya University. Our Admission counselor will connect with you shortly. Please note reference no. **AU/23/70** for future actions

CONTINUE

Step 2: Key in your 'Date of Birth', Personal Identification number issued by the Government, Gender & Nationality Click "Save & Continue"

A screenshot of the Acharya University application form. The top navigation bar includes 'Personal Details', 'Address Details', 'Academic Background', 'Documents', and 'Payment'. The 'Registration Details' section is highlighted. It contains a table with the following information:

Applicant Name	candidate	Applicant No	AU/23/70
Phone	+919 99566555	Registration Date	15-04-2023
AC No	2023-2024	Sex	Before (Gender)
Program	Bachelor of Technology	Program Specification	Computer science and engineering

Below the table are several input fields: 'Applicant Name*' (filled with 'candidate'), 'Date of Birth*' (empty), 'Gender*' (radio buttons for 'Male' and 'Female'), 'Phone No*' (filled with '+919 99566555'), 'Registration ID*' (empty), 'Email' (empty), 'Personal Identification Number*' (empty), 'Branch*' (dropdown menu with 'BTech Computer Science and Engineering' selected), and 'Semester*' (dropdown menu with 'BTech Data Science' selected). There are 'BACK' and 'SAVE & CONTINUE' buttons at the bottom.

Step 3: Provide permanent address, correspondence address and click 'save & continue'.

The screenshot shows the 'Address' section of the Acharya University application form. It features two columns: 'Permanent Address' and 'Correspondence Address'. Each column contains four input fields: 'Country*', 'State*', 'City*', and 'Address*'. A 'BACK' button is located at the bottom left, and a 'SAVE & CONTINUE' button is at the bottom right. The progress bar at the top indicates that the 'Address Details' step is currently active.

Step 4: Provide Academic background details such as qualification, region, school/lyceum studied and passing year for Grade 11 or Lyceum Certificate. Also, select English certification Yes/No. If yes please select the certification type IELTS/CEFR/TOEFL. Please Note that the English Certification is NOT Mandatory for Admission at Acharya University.

The screenshot shows the 'Academic Background' section of the Acharya University application form. It is organized into four columns: 'Qualification', 'Region', 'School / College Studied', and 'Passing Year'. The 'Qualification' and 'Region' columns have dropdown menus with options like 'Class 11', 'Lyceum', and 'Other'. The 'School / College Studied' and 'Passing Year' columns have text input fields. Below these columns is a section for 'Are English Certifications?' with radio buttons for 'Yes' and 'No'. A 'BACK' button is on the left and a 'SAVE & CONTINUE' button is on the right. The progress bar at the top shows 'Academic Background' as the active step.

Step 5: As part of the application process, you'll need to upload your Grade 11 or Lyceum certificate, whichever is applicable to your educational system under academic documents. Make sure to upload your passport copy (PIN) and your photo in to support your application. The uploads should be in PDF or JPEG format and should not exceed 2 MB. Click Save & Continue for the final step.

The screenshot shows the 'Upload Documents' section of the Acharya University application form. It features three distinct upload boxes, each with a cloud icon and the text 'Drop your [Document Type] here or browse'. The document types are 'Academic Documents', 'Passport', and 'Photo'. Each box also specifies 'PDF - smaller than 2 MB'. A 'BACK' button is on the left and a 'SAVE & CONTINUE' button is on the right. The progress bar at the top indicates that the 'Documents' step is currently active.

Step 6: Pay an Application fee of US \$2 Online through the secure payment gateway.

Note: If in case if you are logged out during any of the above steps, please visit www.acharya.uz/applynow click on 'Already Registered'. You can continue from where you left off by logging in using the ARN (Application Reference Number) or your registered mobile number.

Admission Process

Step 1: Post submitting your application and your documents Online, the university shall review your application. The university officials may contact you for any clarifications. On successful review, you will be sent Admit Card for Acharya University Entrance Test (AUET) as per the timeline shared.

Step 2: Appear for Acharya University Entrance Test (AUET) on the designated date and time mentioned in the admit card. This test will assess your aptitude and knowledge in the field of information technology. Be prepared to showcase your skills and abilities.

Step 3: Announcement of Shortlisted Candidates after the completion of the AUET, candidates be notified through the university's website & through telegram.

Step 4: If you are shortlisted, you will be invited to participate in the counselling process. Counselling sessions are conducted to provide guidance and information regarding program choices, course requirements, and any additional documents needed for admission. Attend the counselling session as per the given schedule.

Step 5: Sign the Contract Once you have successfully completed the counselling process and have chosen your program, you will be required to sign an admission contract. The contract will outline the terms and conditions of your admission, including academic policies, code of conduct, and financial obligations.

Step 6: You will need to pay the applicable fees within the stipulated time. Detailed instructions regarding the fee payment process will be provided to you during the counselling session and will also be available on our website www.acharya.uz.

Tuition Fees and Payment Schedule:

At Acharya University, we strive to provide quality education at fees are reasonable, affordable and are designed to reflect the value of the programs we offer.

Table:

Programs		Fee per Semester
Bachelor of Technology (B.Tech.)	<ol style="list-style-type: none"> 1. Computer Science and Engineering 2. Data Science 3. Artificial Intelligence & Machine Learning 4. Cloud Computing & Security 	13 950 000 UZS
Bachelor of Computer Applications (BCA)	<ol style="list-style-type: none"> 1. Information Technology 2. Data Analytics 3. Cloud Computing 4. Full Stack Development 5. UI & UX Design 	13 950 000 UZS
Bachelor of Business Administration - Information Technology (BBA-IT)	<ol style="list-style-type: none"> 1. Business Analytics 2. FinTech 3. Digital Marketing 	13 950 000 UZS
Master of Technology (M.Tech)	<ol style="list-style-type: none"> 1. Computer Science & Engineering 2. Data Science 3. Artificial Intelligence & Machine Learning 4. Cloud Computing and Security 	13 950 000 UZS
Master of Computer Applications (MCA)	<ol style="list-style-type: none"> 1. Information Technology 2. Data Analytics 3. Cloud Computing 4. Full Stack Development 	13 950 000 UZS
Master of Business Administration (MBA)	<ol style="list-style-type: none"> 1. Business Analytics 2. FinTech 3. Digital Marketing 4. Digital Health 	13 950 000 UZS
Doctor of Philosophy (Ph.D.)	<ol style="list-style-type: none"> 1. Computer Science 2. Information Technology 3. Management 	13 950 000 UZS



Grants (Scholarships)

Acharya University is offering 100 grants to deserving meritorious students. These grants are designed to support students in pursuing their educational goals and are available in both full and partial amounts.

Selection Process:

The selection of grant recipients will be based on the Acharya University Entrance Test (AUET) 2023. The AUET is a crucial step in the admission process for all applicants.

After the AUET, the top rank holders will be shortlisted for a face-to-face interview with the university's selection committee. The interview provides an opportunity for candidates to showcase their passion, skills, and potential to contribute to the field of information technology. The committee will evaluate the candidates based on their performance in the interview.

Announcement of Grant Winners:

Following the face-to-face interviews, the selection committee will carefully assess the performance of the candidates and determine the recipients of the grants. The committee will consider various factors such as academic achievements, interview performance, and potential for success in the program.

Once the selection process is complete, Acharya University will announce the list of grant winners on our website and official communication channels. The names of the successful candidates will be displayed, along with details of the type and amount of the grant awarded.

Full and Partial Grants:

Acharya University offers both full and partial grants to eligible students. Full grants cover the entire tuition fee for the program, enabling students to pursue their studies without financial constraints. Partial grants, on the other hand, provide financial assistance by covering a portion of the tuition fee.

We understand that pursuing higher education is a significant financial commitment, and these grants aim to ease the burden and make quality education accessible to deserving students.

Note: The number of grants, eligibility criteria, and other specific details may vary from year to year. We recommend regularly checking the university's website and official communication channels for the most up-to-date information regarding grants and scholarships.

Payment Options and Deadlines

Payment Methods:

To facilitate the payment process, Acharya University offers various payment methods. Students can make tuition fee payments through online banking, debit/credit cards, or other specified payment gateways. Detailed instructions regarding the accepted payment methods will be provided in the payment schedule.

Payment Deadlines:

To ensure smooth operations and to avoid any inconvenience, it is important for students to adhere to the payment deadlines specified in the payment schedule. Late payment may result in additional charges or potential disruption to the enrolment process. Therefore, it is crucial for students to plan their payments in advance and submit them on or before the specified due dates.

Financial Aid Office:

If you require assistance or have questions regarding tuition fees, payment options, scholarships, or grants, our dedicated Financial Aid Office is available to guide and support you. They can provide detailed information about financial aid opportunities, eligibility criteria, and help you navigate the payment process.

Important dates for AUET

Important dates for AUET		
Schedule	Date	Day
First AUET 2023		
Application Commencement	23rd June	Friday
Closure of Application	24th July	Monday
Admit Card Download	25th & 26th July	Tuesday - Wednesday
First AUET	27th July	Thursday
Answer Key Announcement	27th July	Thursday
Announcement of Rank	30th July	Sunday
Counselling	31st & 01st August	Monday - Tuesday
Face to Face Interview for Grants	31st & 01st August	Monday - Tuesday
Last date to Sign the Contract and Payment of Fee	05th August	Saturday
Second AUET 2023		
Application Commencement	27th July	Thursday
Closure of Application	19th August	Saturday
Admit Card Download	20th & 21st August	Sunday & Monday
Second AUET	22nd August	Tuesday
Answer Key Announcement	22nd August	Tuesday
Announcement of Rank	23rd August	Wednesday
Face to Face Interview for Grants	24th - 25th August	Thursday - Friday
Last date to Sign the Contract and Payment of Fee	02nd - September	Saturday
Final AUET 2023		
Application Commencement	27th - September	Thursday
Closure of Application	17th - September	Sunday
Admit Card Download	18th - 19th September	Monday & Tuesday
Final AUET	20th - September	Wednesday
Answer Key Announcement	20th - September	Wednesday
Announcement of Rank	21st - September	Thursday
Face to Face Interview for Grants	22nd - 23rd September	Friday - Saturday
Last date to Sign the Contract and Payment of Fee	02nd - October	Monday

AUET Guidelines

AUET Admit Card:

- The AUET Admit Card 2023 will be released in the Acharya University official website www.acharya.uz/admission/auet-admit-card
- Candidates must download and print their AUET admit cards to appear for the entrance test.
- Candidates must carry the original passport for verification prior to entering the exam hall.
- The admit card contains important information such as instructions for the day of test, Entrance test dates, time, venue, and candidate details.
- It is mandatory to carry the admit card to the test centre on the day of the entrance test.

Acharya University Entrance Test (AUET) Pattern

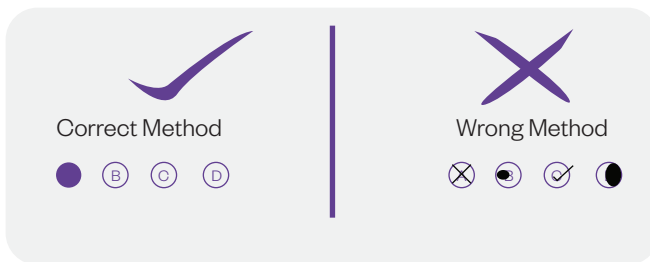
Particulars	Details
Entrance Test mode	Offline
Duration of Entrance Test	3 hours
Medium of Entrance Test	English
Type of questions	Multiple Choice Questions
Section-A	Mathematics -40 Points
Section-B	Logical reasoning – 40 Points
Section-C	English-20 Points
Total number of questions	100 Questions
Maximum Points	100 Points
Marking scheme	One point for each question is granted for every right answer. There is no negative marking.

General Instruction to the Candidates AUET 2023:

- The admit card will be sent to you or you can download from the Acharya University website www.acharya.uz/admission/auet-admit-card
- The candidates have to appear for AUET-2023 as per the schedule mentioned in the admit card. The candidates must ensure to reach their respective AUET 2023 Test Centre ONE HOUR before the commencement of the entrance test.
- The candidates appearing for entrance test must carry only the following documents:
 - AUET 2023 entrance Admit Card
 - A valid photo identity proof (Passport)
 - Black ball point pens (Extra Black ball point pens)
- Candidates will NOT be allowed to carry any electronic Equipment, Gadgets, Pagers, Mobile Phones, Bluetooth Devices, Markers, White Fluid, Calculator, Wireless sets, Smart watch, bits of paper, books / notes etc. into the Examination Hall. The candidate(s) found in possession of any of these items in the examination hall will be treated as unfair means and his/ her result will not be declared.
- Candidates can keep their valuables in the CLOAKROOM provided in the test center.
- Candidates must occupy the seat in the respective room allotted as per the entrance test number mentioned on the notice board.
- The Candidates have to maintain discipline inside the campus & examination hall.
- The "Attendance Sheet" will be provided to the candidates in which they must sign in the presence of their respective test invigilator.
- Candidates are informed to check the Bell Timings mentioned in the table for Caution bells at different intervals.
- The candidates have to follow the instructions given by the invigilators in the examination hall/ room. The candidates, who do not follow the instructions, will be treated as resorting to unfair means such candidates are liable for disqualification.
- If any candidate writes/shades anything other than the required entries on the OMR Answer Sheet, which may result in disclosing the candidate's identity, or use of abusive language or employ any other unfair means, such as change of marking answers by scratching or using white fluid, such candidates are liable for disqualification.
- The candidates will not be allowed to go outside their exam halls during the exam time slot.
- Candidates have to handover the OMR sheet to the room superintendent after the

entrance test before leaving the exam hall without fail.

- Candidates found not abiding by all the regulations and instructions mentioned above will be disqualified by the exam officials.
- Instructions to the Candidates about OMR sheet filling
- Fill/ Darken the OMR sheet with BLACK INK BALL POINT PEN only.
- Darken the appropriate circles for Entrance Test seat number, Version code, Date & Session.
- Wrong darkening or double circle darkening will be treated as invalid and will lead to delay in processing of results. Please follow the below and practice the correct method.



- Candidates should not use pencil, whitener, eraser while filling the OMR sheet.
- Candidates have to write their name in CAPITAL LETTERS without any mistakes on the OMR Answer Sheet.
- Candidates are to compulsorily sign on the OMR sheet in the space provided.
- Candidates are advised not to fold/damage the OMR sheet.
- The question booklet contains 100 questions with three sections as mentioned below and each question will have one statement and four different options/choices.
- Section-A: Mathematics- 40 questions
- Section-B: Logical reasoning-40 questions
- Section-C: English-20 questions

Acharya University Entrance Bell Timings

Sl. No.	Particulars	Time	Type/No of Bell
1.	Last entry the Test centre	09:30 AM	Long Bell
2.	Last Entry to the Examination Hall	09:30 AM	Long Bell
3.	Distribution of OMR Sheets to the candidates	09:45 AM	Single Bell
4.	Instructions to the candidates to fill OMR sheet	09:50 AM	Single Bell
5.	Distribution of question booklet and to be opened by the candidates,	10:00 AM	Single Bell
6.	Commencement of Entrance test	10:00 AM	Long Bell
7.	After One Hour	11:00 AM	Single Bell
8.	After Two Hour	12:00 PM	Single Bell
9.	After Two and Half an Hour	12:30 PM	Single Bell
10.	Test Concludes	01:00 PM	Long Bell

Acharya University Entrance Test: Do's and Don'ts

Sl. No.	Do's	Don'ts
1.	Understand the entrance test pattern	Forget to read instructions/Guidelines of the Acharya University entrance test.
2.	Utilize study resources available on Acharya university website.	Neglect time management
3.	Practice sample papers available on Acharya University website.	Guess blindly
4.	Carry Acharya Entrance Test Admit Card to the test centre.	Candidates are advised not to fold/damage the OMR sheet.
5.	Use only BLACK BALL POINT PEN for bubbling in OMR sheet	Use Pencil/Whitener/Eraser in OMR sheet
6.	Handover the OMR sheet to the room invigilator after the completion of entrance test.	Carry mobile Phones, Smart watch, study material, calculator, memory chip etc.,

AUET Sample Question Papers:

Candidates can also download sample Question Papers and OMR sheets from University website www.acharya.uz/admission/auet-sample-paper and practice the same.



ACHARYA UNIVERSITY, UZBEKISTAN ENTRANCE TEST-2023

Name:

AUET Application No.:

Max. Points:100

Duration: 3 hrs.

Instructions:

1. Candidate should use only Black ballpoint pens. Fill/Darken the OMR answer sheet with BLACK INK BALL POINT PEN only.
2. Candidates have to write their name in CAPITAL LETTERS without any mistakes on the OMR Answer Sheet.
3. Candidates must occupy the seat in the respective room allotted as per the entrance test number mentioned on the notice board.
4. Darken the appropriate circles for Entrance Test seat number, Version code, Date, and Session.
5. The "Attendance Sheet" will be provided to the candidates in which they must sign in the presence of their respective test invigilator.
6. The candidates will not be allowed to go outside their exam halls during the exam time slot.
7. Candidates have to hand over the OMR sheet to the room superintendent after the entrance test before leaving the exam hall without fail.
8. Each question carries one points.
9. One point for each correct answer.
10. No negative point for an incorrect answer.

PART-A MATHEMATICS

1. The value of $\lim_{x \rightarrow \frac{\pi}{3}} \frac{\tan x}{2 \tan x - \sqrt{3}}$ is
- a) $\frac{1}{\sqrt{3}}$ b) $\frac{\sqrt{3}}{2}$ c) 1 d) 3
2. Suppose that $\lim_{x \rightarrow \frac{1}{2}} h(x) = -3$ and $\lim_{x \rightarrow \frac{1}{2}} f(x) = 3$ then $\lim_{x \rightarrow \frac{1}{2}} \left(\frac{h(x) + 2f(x)}{\sqrt{3}f(x)} \right)$
- a) $\frac{1}{3}$ b) $\frac{3}{\sqrt{6}}$ c) 3 d) 1
3. The function $f(x) = e^{|x|}$ is
- a) Continuous everywhere but not differentiable at $x=0$ b) Not continuous at $x=0$
c) Continuous and differentiable every where d) None of these
4. The slope of the tangent line of the function $y = \sqrt{x^2 + 5}$, at $x = 2$ is
- a) $\frac{1}{3}$ b) $\frac{2}{3}$ c) $\frac{1}{2}$ d) 2
5. If $y = e^{\sqrt{x}}$ then the derivative is
- a) $y' = \frac{e^{\sqrt{x}}}{\sqrt{x}}$ b) $y' = \frac{e^{\sqrt{x}}}{2\sqrt{x}}$ c) $y' = e^{\sqrt{x}}$ d) $y' = 0$
6. The average velocity of the position function $s(t) = 3t^2 - t + 3$ over the interval $t = 2$ to $t = 2.5$ sec is
- a) 12.5 m/s b) 6.25 m/s c) 12 m/s d) 6 m/s
7. If $y = \ln(\sin 3x)$ then the derivative is
- a) $y' = 3 \cot 3x$ b) $y' = 3 \cot x$ c) $y' = \cot 3x$ d) $y' = -3 \cot 3x$
8. A truck driving along a freeway with traffic has travelled $s(t) = \frac{t^3}{3} - 2t^2 + 3t + 4$ meters in t seconds. If the velocity of the truck is zero than the time is
- a) $t = 2 \text{ sec} \& 3 \text{ sec}$ b) $t = 1 \text{ sec} \& 2 \text{ sec}$ c) $t = 1 \text{ sec} \& 3 \text{ sec}$ d) $t = 4 \text{ sec} \& 3 \text{ sec}$
9. If $\ln y = \sin(x^2)$ then $\frac{dy}{dx}$ is
- a) $\frac{dy}{dx} = y \cos(x^2)$ b) $\frac{dy}{dx} = y \cos(x^2) \cdot 2x$ c) $\frac{dy}{dx} = \cos(x^2) \cdot 2x$ d) $\frac{dy}{dx} = \frac{\cos(x^2) \cdot 2x}{y}$
10. If $y = e^{\sqrt{\cos x}}$ then the derivative is
- a) $y' = \frac{e^{\sqrt{\cos x}} \cdot (-\sin x)}{\sqrt{\cos x}}$ b) $y' = \frac{e^{\sqrt{\cos x}} \cdot (-\sin x)}{2\sqrt{\cos x}}$
c) $y' = \frac{e^{\sqrt{\sin x}} \cdot (-\sin x)}{2\sqrt{\cos x}}$ d) $y' = \frac{e^{\sqrt{\cos x}} \cdot (\sin x)}{2\sqrt{\cos x}}$

22. The value of $\int_1^3 3x^2 dx$ is
- a) 27 b) 26 c) 28 d) 25
23. The points $(-5, 1)$, $(1, p)$ and $(4, -2)$ are collinear if the value of p is
- a) 3 b) 2 c) 1 d) -1
24. The coordinates of the centroid of a triangle whose vertices are $(0, 6)$, $(8, 12)$ and $(8, 0)$ is a
- a) $(4, 6)$ b) $(16, 6)$ c) $(8, 6)$ d) $(16/3, 6)$
25. The points $(2, 5)$, $(4, -1)$ and $(6, -7)$ are vertices of an/a
- a) isosceles triangle b) equilateral triangle c) right-angled triangle d) none of these
26. Sine of the angle between the vectors $2i - 3j + k$ and $6i - 9j + 3k$ is
- a) 0 b) $\frac{1}{2}$ c) $\sqrt{(3/2)}$ d) 1
27. If the vectors $3i + j - 2k$, $i + 2j - 3k$, $3i + \lambda j + 5k$ are co-planner, the value of λ is
- a) -4 b) 4 c) 8 d) -8
28. If $\vec{a} = 3i - 2j + 2k$, $\vec{b} = 6i + 4j - 2k$, $\vec{c} = -3i - 2j - 4k$ then $\vec{a} \times (\vec{b} \times \vec{c})$ is
- a) $10(-6i - 4j + 5k)$ b) $-60i + 40j + 50k$ c) $64i - 55j + 40k$ d) $60i + 40j - 50k$
29. If $(\vec{a} + \vec{b}) = 2i - j - k$ and $(\vec{a} - \vec{b}) = 4i - 3j - 3k$ then $\frac{|\vec{a}|}{|\vec{b}|}$ is
- a) $\sqrt{(17/3)}$ b) 2 c) $\sqrt{(41/3)}$ d) 0
30. If A and B are two independent events w/P(A) = 0.3 and P(A ∪ B) = 0.8 P(B) is
- a) 6/7 b) 5/7 c) 3/7 d) 4/7
31. Two cards are drawn successfully with replacement from a pack of 52 cards. The probability of drawing two kings is
- a) $\frac{1}{13} \times \frac{1}{17}$ b) $\frac{1}{13} \times \frac{1}{13}$ c) $\frac{1}{25} \times \frac{1}{51}$ d) $\frac{1}{3} \times \frac{4}{51}$
32. A coin and six faced die, both unbiased, are thrown simultaneously. The probability of getting a head on the coin and an odd number on the die, is
- a) 1/2 b) 3/4 c) 1/4 d) 2/3
33. In a certain population 10% of the people are rich 5% are famous and 3% are rich and famous. The probability that a person picked at random from the population is either famous or rich but not, both is equal to
- a) 0.07 b) 0.08 c) 0.09 d) 0.12

44. If $A = 1$, $B = 2$, $C = 3$, $D = 4$, what is the value of $E + F + G + H$?
a) 28 b) 30 c) 32 d) 34
45. If all dogs have four legs, and Fido is a dog, what can you conclude?
a) Fido has four legs. b) Fido does not have four legs. c) Fido is a cat. d) Fido is a bird.
46. What number comes next in the sequence? 3, 6, 9, 12, __
a) 14 b) 15 c) 16 d) 18
47. Which day of the week comes two days before Saturday?
a) Sunday b) Tuesday c) Wednesday d) Friday
48. Which number comes next in the sequence? 2, 5, 9, 14, 20
a) 25 b) 26 c) 27 d) 28
49. If all squares are rectangles, and all rectangles are polygons, which of the following statements is true?
a) All squares are polygons. b) All polygons are squares.
c) All rectangles are squares. d) All squares are rectangles.
50. Which of the following is not a prime number?
a) 2 b) 3 c) 4 d) 5
51. Which of the following is a type of quadrilateral?
a) Triangle b) Square c) Circle d) Hexagon
52. If all mammals have lungs, which of the following animals is a mammal?
a) Crocodile b) Fish c) Dolphin d) Turtle
53. What is the missing number in the series? 3, 8, 15, ?, 33, 48
a) 22 b) 23 c) 24 d) 25
54. If all right angles are equal, which of the following angles is a right angle?
a) 60 degrees b) 90 degrees c) 120 degrees d) 180 degrees
55. If all rectangles have four sides and a square is a rectangle, what can you conclude
a) Squares do not have four sides. b) Squares have four sides.
c) Squares are not rectangles. d) Squares are circles
56. Which of the following is an example of inductive reasoning?
a) All prime numbers are odd.
b) Every time I eat peanuts, I get a rash.
c) The sum of the angles in a triangle is always 180 degrees.
d) If it is raining, then the ground is wet.
57. What is the next letter in the sequence? A, C, F, J?
a) L b) M c) N d) P
58. If $3x + 7 = 22$, what is the value of x ?
a) 5 b) 7 c) 8 d) 9

59. Which of the following is an example of deductive reasoning?
- If it is hot outside, then I will wear shorts.
 - All squares have four sides, but not all four-sided figures are squares.
 - Every time I eat ice cream, it melts.
 - The sum of two odd numbers is always even.
60. Which number does not belong to the following sequence? 10, 17, 26, 37, 50
- 1
 - 17
 - 26
 - 37
61. What is the missing number in the series? 2, 4, 8, 16, ?, 64
- 24
 - 28
 - 32
 - 48
62. If all squares have four equal sides and a rectangle is a quadrilateral, what can you conclude?
- Rectangles have four equal sides.
 - Rectangles do not have four equal sides.
 - Rectangles are not quadrilaterals.
 - Rectangles are circles.
63. Which of the following is an example of inductive reasoning?
- All living things require water to survive.
 - Every time I drink milk, I feel thirsty.
 - The first three terms of this sequence are prime numbers, so all the terms must be prime numbers.
 - If it is snowing, then the temperature is below freezing.
64. What is the next letter in the sequence? A, D, H, M, ?
- R
 - S
 - T
 - U
65. What is the next number in the sequence? 2, 4, 8, 16, ?
- 24
 - 32
 - 64
 - 128
66. If "ROSE" is coded as "ESOR," how would you code "TABLE"?
- ELBAT
 - ELTAB
 - BATLE
 - ETABL
67. A car traveled at an average speed of 60 km/h for the first half of the distance and 80 km/h for the second half. What was the car's average speed for the entire journey?
- 70 km/h
 - 72 km/h
 - 75 km/h
 - 76 km/h
68. If "CAT" is coded as "FEX," how would you code "DOG"?
- JRI
 - JRI
 - GRI
 - DRI
69. Which of the following is an example of deductive reasoning?
- All dogs have four legs, and Fido is a dog, so Fido has four legs.
 - All birds can fly, and penguins are birds, so penguins can fly.
 - Every time it rains, the ground gets wet, so it must be raining now.
 - The sum of two even numbers is always even.
70. If $2x - 5 = 7$, what is the value of x ?
- 6
 - 8
 - 10
 - 12

71. If "Pencil" is coded as "Aopnbf," how would you code "Paper"?
- a) Tbsfq b) Tfqbs c) Tfbqs d) Tbqfs
72. If all cats have fur and Fluffy is a cat, what can you conclude?
- a) Fluffy has fur. b) Fluffy does not have fur.
c) Fluffy is a dog. d) Fluffy is an alien.
73. Identify the missing number in the sequence: 2, 5, 11, 20, ?
- a) 26 b) 29 c) 30 d) 32
74. All birds can fly. Which of the following conclusions can be logically inferred from the statement?
- a) Penguins are birds. b) Ostriches cannot fly.
c) Bats are birds. d) All birds have feathers.
75. All cats are mammals. Which of the following conclusions can be logically inferred from the statement?
- a) All mammals are cats. b) Dogs are mammals.
c) All cats are dogs. d) All mammals are animals.
76. If it is Monday, then John goes to work. Which of the following conclusions can be logically inferred from the statement?
- a) John goes to work every day. b) It is Monday today.
c) John never goes to work. d) John only goes to work on Monday.
77. If all Zargons are Widgets, and some Widgets are Doodads, which of the following statements must be true?
- a) All Zargons are Doodads. b) Some Zargons are Doodads.
c) No Zargons are Doodads. d) Some Zargons are not Doodads.
78. If a car travels 200 kilometers in 4 hours, what is its average speed in kilometers per hour?
- a) 50 b) 100 c) 150 d) 800
79. If all cats have tails, and Mittens is a cat, which of the following statements must be true?
- a) Mittens has a tail. b) Mittens is a dog.
c) Mittens is a bird. d) Mittens is a fish.
80. All athletes are disciplined individuals. John is an athlete. Which of the following conclusions can be drawn?
- a) John is disciplined. b) All disciplined individuals are athletes.
b) John is not disciplined. d) John is a runner.

SECTION-C

ENGLISH

Read the following passage and answer the questions below

I) Radium is a white powder that has the appearance of table salt. A pound of it is worth a thousand pounds of gold. Radium is very expensive because it is very scarce. A pinch of it is worth a small fortune. There are only a few spoons in the world. But radium is so potent that excess amounts are dangerous. A pound or two gathered in one spot will kill anyone who approaches. With radium, scientists hope to learn how to change one element into another. Changing other metals into gold will be attractive and profitable. But it would be more valuable to learn how to get all the energy from atoms to do human work.

Questions:

81. What is radium?

- a) A type of metal
- b) A white powder that resembles table salt
- c) A rare mineral
- d) A valuable gemstone

82. How much is a pound of radium worth?

- a) A few dollars
- b) A few thousand dollars
- c) A thousand pounds of gold
- d) The value of a small fortune

83. What is the significance of radium?

- a) It is used to make gold
- b) It has the potential to change elements into another
- c) It has a high market value
- d) It is a valuable source of energy

84. Can radium be dangerous if in excess amounts?

- a) No, it is safe in any amount
- b) It depends on how it is used
- c) Yes, it can be deadly
- d) It is only dangerous to certain individuals

II) The Suez Canal is a man-made canal located in Egypt that connects the Red Sea to the Mediterranean Sea. It was built in the mid-19th century to provide a shorter and more direct route for ships traveling between Europe and Asia. The Suez Canal is an important waterway for international trade, with over 50,000 ships passing through each year. It is also a major source of revenue for Egypt, as ships must pay a fee to use the canal. The Suez Canal is an engineering marvel and is considered one of the greatest achievements of the 19th century.

Questions:

85. Where is the Suez Canal located?

- a) Egypt
- b) Mediterranean Sea
- c) Red Sea
- d) Europe

86. What does the Suez Canal connect?
- a) The Red Sea to the Mediterranean Sea
 - b) The Mediterranean Sea to the Atlantic Ocean
 - c) The Red Sea to the Indian Ocean
 - d) The Mediterranean Sea to the Pacific Ocean

87. Why was the Suez Canal built?
- a) To provide a shorter and more direct route for ships
 - b) To connect the two seas for recreational purposes
 - c) To create a new source of revenue
 - d) To boost tourism in the area

88. How many ships pass through the Suez Canal each year?
- a) 50,000
 - b) 100,000
 - c) 25,000
 - d) 75,000

III. Conflict had existed between Spain and England since the 1570's. England wanted a share of the wealth that Spain had been taking from the lands it had claimed in the Americas. Elizabeth I, Queen of England, encouraged her staunch admiral of the navy, Sir Francis Drake, to raid Spanish ships and towns. Though these raids were on a small scale, Drake achieved dramatic success, adding gold and silver to England's treasury and diminishing Spain's supremacy.

Religious differences also caused conflict between the two countries. Whereas Spain was Roman Catholic, most of England had become Protestant. King Philip II of Spain wanted to claim the throne and make England a Catholic country again. To satisfy his ambition and also to retaliate against England's theft of his gold and silver, King Philip began to build his fleet of warships, the Spanish Armada, in January 1586.

Philip intended his fleet to be indestructible. In addition to building new warships, he marshaled 130 sailing vessels of all types and recruited more than 19,000 robust soldiers and 8,000 sailors. Although some of his ships lacked guns and others lacked ammunition, Philip was convinced that his Armada could withstand any battle with England.

The martial Armada set sail from Lisbon, Portugal, on May 9, 1588, but bad weather forced it back to port. The voyage resumed on July 22 after the weather became more stable. The Spanish fleet met the smaller, faster, and more maneuverable English ships in battle off the coast of Plymouth, England, first on July 31 and again on August 2. The two battles left Spain vulnerable, having lost several ships and with its ammunition depleted. On August 7, while the Armada lay at anchor on the French side of the Strait of Dover, England sent eight burning ships into the midst of the Spanish fleet to set it on fire. Blocked on one side, the Spanish ships could only drift away, their crews in panic and disorder. Before the Armada could regroup, the English attacked again on August 8.

Although the Spaniards made a valiant effort to fight back, the fleet suffered extensive damage. During the eight hours of battle, the Armada drifted perilously close to the rocky coastline. At the moment when it seemed that the Spanish ships would be driven onto the English shore, the wind shifted, and the Armada drifted out into the North Sea. The Spaniards recognized the superiority of the English fleet and returned home, defeated.

89. Sir Francis Drake added wealth to the treasury and diminished Spain's _____.
- a) unlimited power
 - b) unrestricted growth
 - c) territory
 - d) treaties

90. King Philip recruited many _____ soldiers and sailors.

- a) warlike
- b) strong
- c) accomplished
- d) timid

91. The _____ Armada set sail on May 9, 1588.

- a) complete
- b) warlike
- c) independent
- d) isolated

92. The two battles left the Spanish fleet _____.

- a) open to change
- b) triumphant
- c) open to attack
- d) defeated

93. The Armada was _____ on one side.

- a) closed off
- b) damaged
- c) alone
- d) circled

IV) Fast-food is such a pervasive part of American life that it has become synonymous with American culture. Fast-food was born in America and it has now swollen into a \$106-billion industry. America exports fast-food worldwide and its attendant corporate culture, has probably been more influential and done more to destroy local food economies and cultural diversity than any government propaganda programme could hope to accomplish. No corner of the earth is safe from its presence and no aspect of life is unaffected. Fast food is now found in shopping malls, airports, hospitals, gas stations, stadiums, on trains, and increasingly, in schools. There are 23,000 restaurants in one chain alone, and another 2,000 are being opened every year. Its effect has been the same on the millions of people it feeds daily and on the people it employs. Fast-food culture has changed how we work, from its assembly-line kitchens filled with robotic frying machines to the trite phrases spoken to customers by its poorly paid part-time workforce. In the United States, more than 57 per cent of the population eat meals away from home on any given day and they spend more money on fast-food than they do on higher education, personal computers, or even on new cars.

Questions:

94. One point that receives a lot of attention in the passage is _____.

- a) the fact that fast-food is now more popular outside the US than it is inside
- b) the fact that fast-food meets our dietary needs
- c) the consideration the fast-food companies show to their employees
- d) the far-reaching effects of the fast-food industry

95. This passage on American's fast-food industry -----.

- a) reveals the support it received from government propaganda
- b) concentrates on negative aspects of the sector
- c) is clearly written by someone who loves good food
- d) shows convincingly that it is falling into disfavour

96. The assertion at the end of the passage that Americans spend more money on fastfood than they do on higher education-----.

- a) suggests that Americans are greedy for good food
- b) is, in the light of the rest of the passage, a gross exaggeration
- c) is a criticism of the amount of money spent on fast-food by Americans
- d) is an indication that higher education in the US is not expensive

97. The word "swollen" in line 2 -----.

- a) draws attention to the inevitability of the growth of the industry
- b) emphasizes the speed at which the industry has grown
- c) implies that the industry will continue to grow on steadily
- d) suggests that the growth is excessive and unhealthy

98. The writer of the passage clearly regrets the fact that -----.

- a) the growth of the fast-food industry has now come to a halt
- b) the fast-food industry cannot retain the high standards with which it started
- c) local and traditional styles of food are being pushed off the market
- d) there are still more traditional restaurants than fast-food ones

V) In some countries the government controls all trade and in others it allows companies and firms to trade freely. However, all governments control trade in some way. Sometimes a government forbids companies to buy or sell dangerous or illegal products, or military technology. When companies expand and get bigger they often take over others and form a monopoly. Governments pass laws to prevent companies from becoming too strong and powerful and from controlling the market. Many governments try to help their own industries by making it more difficult to import foreign products. They put import taxes on foreign goods to make products more expensive and their own products cheaper. A government may also limit the number of products that it will buy from another nation. European countries, for example, may limit the number of cars that are imported from Japan or the USA. They want their people to buy European cars. We call this strategy protectionism because governments want to protect their companies and industries.

Questions:

99. Governments try to protect and develop their own industry by ----- .

- a) forbidding illegal products in certain regions
- b) putting taxes on export goods
- c) limiting the number and volume of import goods
- d) signing trade agreements with EU for cheaper goods

100. Which of the following is true?

- a) In Japan, companies are allowed to sell military technology.
- b) Medicine is freely traded all over the globe without restrictions.
- c) Governments sometimes adopt new legislation to protect companies and trade.
- d) All governments are not willing to keep trade under control.



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