

QUESTION BOOKLET

PAPER - II

Question Booklet
Series

D

Time Allowed : 2 hours

Maximum Marks : 200

Minimum Qualifying Marks : 66

INSTRUCTIONS

1. Immediately after the commencement of the examination, you should check that this question booklet does not have any unprinted or torn or missing pages or items, etc. If so, get it replaced by a complete question booklet of the same series.
 2. Write and encode clearly the question booklet series A, B, C or D as the case may be in the appropriate place in the OMR Answer Sheet.
 3. **Particulars/Details to be filled up in the OMR Answer Sheet should be filled up completely and correctly, OMR Answer Sheet of candidates failing to do so will NOT be evaluated.**
 4. This Question Booklet contains 100 items (questions) carrying 2 marks each. Each item comprises of four responses (answers). Mark the response you want on the OMR Answer Sheet. In case you feel that there is more than one correct response, mark only the response which you consider the best. In any case, choose only one response for each item.
 5. You have to mark all your responses only on the separate OMR Response Sheet provided. See directions in the OMR Answer Sheet.
 6. After the examination has concluded, you should hand over the OMR Answer Sheet to the Invigilator only. You are permitted to take away with you the Question Booklet.
 7. Separate sheets for rough work will be provided in the Examination Hall.
 8. **Penalty for wrong answers :**
There will be penalty for wrong answers marked by a candidate.
 - (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, one-third of the marks assigned to that question will be deducted as penalty.
 - (ii) If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answers happens to be correct and there will be same penalty as above to that question.
 - (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be no penalty for that question.
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Directions (Question Nos. 1 – 5) : Read the following passage carefully and answer the questions that follow:

In today's era, global connectivity and operations are solely dependent on IT systems. IT services are essential to keep systems running, networks connected and data secure. Nowadays, the usage of AI and data analytics is also growing rapidly in the IT sector. The integration of smart technologies is enabling businesses to improve their speed. And market coverage alongside enhancing operational efficiency and resource utilization. There are various rapidly growing functions that the IT workforce is expected to manage. With social media, websites, and third-party platforms generating data streams for the business, the need for greater computing, and advanced software including AI analytics and cloud tools is increasing. This is creating demand for professionals in these areas.

The era of remote or on-the-go working has necessitated the building of robust networks and cloud platforms for organisations that employees can access from any location at any time. Development and management of such solutions are another key demand vertical.

The good old 'server rooms' or 'server farms' are now being increasingly replaced by cloud platforms, and serverless operations wherein the maintenance of hosting infrastructure is taken care of by the cloud service providers or data centre companies. With video communication becoming more popular by the day, greater network bandwidth and professionals to manage the infrastructure are also in high demand. Considering the prevalence of IT and its role as the framework upon which modern businesses across industries are being built, there are ample career opportunities in the arena. From niche consulting firms to global IT enterprises, software and cloud giants to startups, companies all over the world are looking at hiring hands-on technical staff with information technology diplomas to advanced IT course certifications, innovators to IT experts with strong industry experience.

Nowadays, IT or Information Technology has become synonymous with everything related to digital communication and technology. From checking email to running software on our laptops, a Zoom call with colleagues at work or live streaming on social media, analysing consumer data from a marketing campaign to even booking online vaccination appointments on a healthcare website, IT is everywhere.

1. The service that is essential to keep systems running, networks connected and data secure is:
 - (a) AI
 - (b) Cloud Technologies
 - (c) IT
 - (d) Network Bandwidth
2. The demand for professionals is being created by areas such as:
 - (a) institutions, healthcare and transportation
 - (b) social media, websites, and third-party platforms
 - (c) automobile and telephone industry
 - (d) AI, robotics and machines
3. The good old 'server rooms' or 'server farms' are now being increasingly replaced by:
 - (a) cloud platforms, and serverless operations
 - (b) software analytics
 - (c) information security
 - (d) systems architect
4. Choose the option that best captures the phrase "having the same connotations, implications, or reference":
 - (a) anonymous
 - (b) innovators
 - (c) synonymous
 - (d) certifications
5. Choose the correct meaning of the word "communication":
 - (a) the imparting or exchanging of information
 - (b) the use of a computer to perform calculations
 - (c) evaluate or estimate the nature, ability, or quality
 - (d) interpret the hidden meaning of a parable

Directions (Question Nos. 6 - 9) : Read the following passage carefully and answer the questions that follow:

Plain 'green' does not suffice. Natural forests have immense tree variety, offering food and dwelling resources for a vast number of birds. But commercial monocultures, which began in the colonial period and have exploded since Independence, tend to narrow that down to much fewer species. Oil palm plantations, for instance, which have grown over 30-fold since the 1990s, support only 14 per cent of the bird species that can be seen in the rainforests next to them in Mizoram. Only 50 per cent of the woodpeckers in Uttarakhand's old sal forests can survive in the teak plantations taking over the state. About 25 per cent of bird species are lost in tea plantations that come up next to rainforests.

Senior Associate Editor Sonali Acharjee writes 'India's Vanishing Birds', drawing a grim picture of India's avianscape from the data thrown up by SoIB 2023, which was put together by 13 major conservation and research organisations based in India. How does all this matter? Well, birds are not just a barometer of ecological health, they are also its guarantors. Seed dispersal and pollination, overall species balance via predation, disease control, the role they play in the web of life is vital. The Wreathed hornbill, in fact, is called the 'farmer of the forest'. The much-reviled vulture is one of the species that can foretell the ecological dangers ahead. "If birds can't survive, it won't be long before humans will find it hard to survive too."

6. Plain 'green' is not enough
 - (a) as 'green' does not mean trees and plants only
 - (b) as 'green' includes other vegetations not healthy for birds
 - (c) as 'green' do not enhance the safety of birds these days
 - (d) as 'green' means only green coloured plants not good for the birds
7. The explosion of commercial monocultures
 - (a) lower the rate of birds evolution
 - (b) lower the death rate of birds
 - (c) lower the evolution of different kinds of birds
 - (d) lower the migration of birds
8. Growth of birds species

(a) decline more in teak plantation	(b) decline more in sal plantation
(c) decline more in tea plantation	(d) decline more in oil palm plantation
9. Birds are not just a barometer of ecological health, they are also its guarantors means
 - (a) birds are important for measuring ecological health
 - (b) birds are used to measure ecological health
 - (c) birds are the only key for measuring ecological health
 - (d) birds are important not only for measuring ecological health

Directions (Question Nos. 10 - 12) : Read the following passage carefully and answer the questions that follow:

Until a hundred years ago as humans, we had a simple, uncomplicated biological connect. It was a straightforward equation: we drew roughly 3, 000 calories each of energy out of the Earth for our food and life's sustenance. Today that number per capita has grown to 1, 00, 000 calories. We still need only 3, 000 calories each to nourish life itself. All the rest of this energy is what we extract from the Earth for everything else besides keeping ourselves alive. In some countries, like the US; this per capita number runs at over 2, 00, 000 calories! Some of us are concerned about this.

We fret over what we could and should really be doing to soften this abuse of resources. Of course, we know that it helps to avoid a plastic bag when you can use a newspaper bag, or a brown bag, or even a jute bag which you can use for many more years, unlike a plastic bag which you throw away in less than a week or after a few uses.

However, there's actually quite a bit more than you and I can do without compromise on comfort, with very little as cost incurred, with financial savings that you can gain on energy and water use, and with solutions that are very feasible and within your reach. It is possible to understand our ecological footprint and its disastrous consequences, not merely in terms of our own behaviour as consumers, but really in terms of the impact on the environment we make.

10. What is the main idea of the passage?
- (a) There is a need to save energy, especially in our future.
 - (b) All of us should not only plant trees but also run the marathon.
 - (c) Use of plastic bags should be completely banned.
 - (d) We need to respect the Earth and consume less of its calories.
11. A suitable title for the passage could be:
- (a) Lets Shift to Jute!
 - (b) How to Consume Few Calories?
 - (c) Save Energy, Save the Earth!
 - (d) The Earth Heading for a Disaster.
12. The actions of a responsible consumer can be measured:
- (a) by impact on the environment we make.
 - (b) by financial savings that you can gain on energy and water use.
 - (c) with very little as cost incurred.
 - (d) with solutions that are very feasible and within your reach.

Directions (Question Nos. 13 – 17) : Read the following passage carefully and answer the questions that follow:

Memory refers to the psychological processes of acquiring, storing, retaining, and later retrieving information. There are three major processes involved in memory: encoding, storage, and retrieval. Human memory involves the ability to both preserve and recover information. However, this is not a flawless process. Sometimes people forget or misremember things. Other times, information is not properly encoded in memory in the first place. Memory problems are often relatively minor annoyances, like forgetting birthdays. However, they can also be a sign of serious conditions such as Alzheimer's disease and other kinds of dementia. These conditions affect quality of life and ability to function. In order to create a new memory, information must be changed into a usable form, which occurs through a process known as *encoding*. Once the information has been successfully encoded, it must be stored in memory for later use. Researchers have long believed that memories formed due to changes in brain neurons (nerve cells). Our understanding today is that memories are created through the connections that exist between these neurons—either by strengthening these connections or through the growth of new connections. This is why reviewing and rehearsing information improves the ability to remember it. Practice strengthens the connections between the synapses that store that memory. Much of our stored memory lies outside of our awareness most of the time, except when we actually need to use it. The memory retrieval process allows us to bring stored memories into conscious awareness.

13. How many processes are involved in memory?
- (a) Seven
 - (b) Five
 - (c) Four
 - (d) Three
14. Memory is not a flawless process because of the following shortcomings:
- (a) Psychological and physical processes
 - (b) News memories are created every second
 - (c) Forgetting things or not encoding information properly
 - (d) Memory lies outside of our awareness all the time

15. In order to create a new memory, information must be changed into a usable form, which occurs through a process known as:
- (a) Decoding (b) Encoding
(c) Rehearsing (d) Retrieval
16. _____ are created either by strengthening connections between brain neurons or through the growth of new connections.
- (a) Memories (b) Nerve Cells
(c) Researchers (d) Synapses
17. The memory retrieval process allows us to bring stored memories into _____ :
- (a) Conscious awareness (b) Brain cells
(c) Practice (d) The foreground
18. Abraham Maslow divided human needs into _____ categories.
- (a) three (b) four
(c) five (d) six
19. The inappropriate means of motivation is:
- (a) Punishment (b) Praise
(c) Knowledge of progress (d) None of these
20. In _____ of team development, the team is faced with disagreements, counter dependence and the need to manage conflict.
- (a) Norming stage (b) Forming stage
(c) Storming stage (d) Performing stage
21. Which of the following is part of the delegation process?
- (a) Removing authority and responsibility (b) Designing organisation structure
(c) Selecting the right person for the task (d) Receiving feedback
22. The objective of compromising approach of conflict management strategy is:
- (a) Get your way (b) Reach an agreement quickly
(c) Solve the problem together (d) Don't upset the other person
23. Mirroring is:
- (a) Using a mirror to see one's appearance
(b) Mimicking someone else's manner of speech
(c) Matching the body language of someone we like
(d) Mocking someone by mimicking their behavior
24. A powerful personal quality that some people have to attract and impress other people.
- (a) Conscientiousness (b) Adaptability
(c) Extroversion (d) Charisma
25. Being able to put oneself in someone else's situation is called:
- (a) Understanding (b) Leadership
(c) Sympathy (d) Empathy
26. Influencing and persuasion are important elements of:
- (a) Listening (b) Empathy
(c) Managing emotions (d) Negotiation
27. Folded arms display what type of body language?
- (a) Open body language (b) Inattentive body language
(c) Defensive body language (d) Attentive body language

28. The ability to regulate and understand one's emotions is known as:
- (a) Confidence (b) Leadership ability
(c) Emotional intelligence (d) Self-Efficacy
29. _____ is the skill of being aware of and understanding one's emotions as they occur and they evolve.
- (a) Self-Awareness (b) Self-Efficacy
(c) Mental Health (d) Social Skills
30. Empathy will allow us to be more effective as a leader and form more _____ relationships.
- (a) Professional (b) Compassionate
(c) Active (d) Exciting
31. Around _____ percent of the manager's waking hours are spent in verbal communication:
- (a) 80 (b) 45
(c) 60 (d) 50
32. In _____, managers pass along advice and information or set standards to help others improve their work skills.
- (a) Counselling (b) Coaching
(c) Listening (d) Guidance
33. Determinant(s) of positional power include(s):
- (a) Flexibility (b) Listening
(c) Coaching (d) Counselling
34. The direct approach of retribution in influence strategies is:
- (a) Bargaining (b) Coercion
(c) Intimidating (d) Ingratiation
35. In a school 120 boys have registered for a singles carrom tournament. Each match eliminates one player. How many matches are to be organized to determine the champion?
- (a) 119 (b) 129
(c) 130 (d) 149
36. A woman introduces a man as the son of the brother of her mother. How is the man, related to the woman?
- (a) Cousin (b) Nephew
(c) Uncle (d) Son-in-law
37. If you write down all the numbers from 1 to 100, then how many times do you write 3?
- (a) 8 (b) 18
(c) 20 (d) 32
38. Twenty four teams are divided into 4 groups of six teams each. Within each group the teams play each other exactly once. The winners of each group then play in the semi-finals. Winners of the semi-finals play in the finals and losers for the 3 place. How many matches are played?
- (a) 60 (b) 62
(c) 64 (d) 66
39. Three words are similar while the fourth one is different, and that is?
- (a) Kilogram (b) Gallon
(c) Quintal (d) Ton
40. What comes next in the sequence: A2, C4, E8, G16, ...?
- (a) I32 (b) J32
(c) L32 (d) K32

Directions (Question Nos. 41 & 42) : A combination of three sculptures are being chosen in an exhibition. The sculptures must be chosen from a group of seven sculptures – A, B, C, D, E, F and G according to the following conditions.

- (i) If A or B is chosen, the other must also be chosen.
- (ii) C and D cannot be chosen together.
- (iii) Either C or A or both must be chosen.

41. If D is chosen which of the following pairs of sculptures must also be chosen?

- (a) A and B
- (b) A and G
- (c) B and C
- (d) C and E

42. If E is chosen, which of the following pairs of sculptures could also be chosen?

- (a) A and C
- (b) A and F
- (c) B and C
- (d) C and F

Directions (Question Nos. 43 & 44) : There are 2 women, Rachel and Mavis. and 5 men: Dimitri, Vishnu, Mohammed, Jacob and Huseyn. Dimitri would not like to be in the group if Vishnu is also selected. Vishnu and Huseyn want to be together in a group. Mavis would like to be in the group if Mohammed is there. If Mohammed is selected, he would not like to be in a group with Jacob. Dimitri would like to be in a group if Jacob gets picked. Mohammed insists that Rachel be selected in case he is in the group.

43. Which of the following is a possible group of 3?

- (a) Mohammed, Dimitri, Huseyn
- (b) Jacob, Vishnu, Huseyn
- (c) Mavis, Mohammed, Vishnu
- (d) Rachel, Mohammed, Dimitri

44. Which of the following is a potential group of 4?

- (a) Dimitri, Jacob, Rachel, Huseyn
- (b) Vishnu, Huseyn, Mavis, Mohammed
- (c) Vishnu, Huseyn, Rachel, Mohammed
- (d) Rachel, Mohammed, Dimitri, Jacob

Directions (Question Nos. 45 & 46) : The table below is the ranks of the top 32 chess players (as of March 2024). Assume for the following questions, they were to be all invited to the FIDE World Cup, and a knockout system would proceed, where the 1st Seed would play the 32nd, the 2nd seed would play the 31st etc... in the first round. Now assume that there are no upsets unless stated otherwise in the given questions. If there are no upsets in the first round, the second round will proceed with the 1st seed playing the 16th seed, 2nd seed would play the 15th seed and so on. The same pattern follows in later rounds as well.

Seed #	Name of Master	Seed #	Name of Master	Seed #	Name of Master
1	Magnus Carlsen	12	Sergey Karjakin	23	Maxime Vachier-Lagrave
2	Fabiano Caruana	13	Leinier Dominguez Perez	24	Vesselin Topalov
3	Hikaru Nakamura	14	Arjun Erigaisi	25	Teimour Radjabov
4	Ding Liren	15	D Gukesh	26	Levon Aronian
5	Anish Giri	16	R Praggnanandhaa	27	Richard Rapport
6	Alireza Firouzja	17	Vidit Gujarathi	28	Yangyi Yu
7	Ian Nepomniachtchi	18	Vincent Keymer	29	Parham Maghsoodloo
8	Wesley So	19	Shakhriyar Mamedyarov	30	Vladislav Artemiev
9	Yi Wei	20	Alexander Grischuk	31	Danill Dubov
10	Viswanathan Anand	21	Jan-Krzysztof Duda	32	Pavel Eljanov
11	Nodirbek Abdusattorov	22	Quang Liem Le		

45. If there were no upsets in the first round and only matches 6, 7 and 8 result in upsets in the second round who would meet Fabiano Caruana in the quarter finals, in case Caruana reaches the quarter finals?
- (a) Ian Nepomniachtchi (b) Yi Wei
(c) Nodirbek Abdusattorov (d) Viswanathan Anand
46. If seeds 6 and 8 lose in the 2nd round while seeds 7 and 9 make it to the semi-finals, then who would play seed 1 in the quarter finals?
- (a) Seed 22 (b) Seed 7
(c) Seed 9 (d) Seed 11

Directions (Question Nos. 47 & 48) : *There are 8 people sitting in a rectangular table, let them be named A, B, C, D, E, F, G and Z. Take A, B, C, D to be the men and E, F, G and Z to be the women of the group. Only the host and the hostess are sitting at opposites while the other 6 are spaced out on the 2 longer sides. The seating arrangement is such that at least 1 side has a person of the opposite sex. A is opposite to G who is not the hostess. Z is sitting to the hostess's right next to C. One person is seated between E and F who is not the hostess.*

47. D must be:
- I. The host
II. Seated to G right
III. Seated opposite to F
- (a) I only (b) III only
(c) I, II and III (d) II and III only
48. Which of the following people is definitely not seated next to a person of the same sex?
- (a) A (b) E
(c) D (d) G

Directions (Question Nos. 49 & 50) : *In each of the question below are given two statements followed by two conclusions numbered I and II. You have to take the two given statements to be true even if they seem to be at variance from commonly known facts and decide which of the given conclusion (s) logically follow (s) from the two given statements, disregarding commonly known facts.*

49. **Statements** I. Some hats are caps.
II. Some caps are mats.
- Conclusions** I. Some caps are hats.
II. Some mats are caps.
- (a) If only conclusion I follows (b) If only conclusion II follows
(c) If either I or II follows (d) If both I and II follows
50. **Statements** I. Some visitors are Japanese.
II. Some visitors are Americans
- Conclusions** I. Some Japanese are visitors.
II. All Japanese are visitors.
- (a) If only conclusion I follows (b) If only conclusion II follows
(c) If either I or II follows (d) If both I and II follows
51. You are posted in a remote area where you face many problems both in personal and professional lives while your other batchmates are enjoying in the urban areas,
- (a) You think that it's your fate and always curse yourself for joining this job.
(b) Leave that job.
(c) Feel jealous with your batchmates and try for your transfer.
(d) Compromise with the situation and start enjoying your job.

52. You have come across a case wherein an old poorman is unable to submit his ration card and claim ration to meet his basic necessity of life. Knowing your superior's procedural approach in handling issues, you...
- Go strictly as per the procedures
 - Take initiative to help the poor man arranging for alternative ration card
 - Assist the poor man with some money on your own but do not compromise on procedures
 - Avoid some procedural steps since you understand the necessity of the poor man.

53. For getting a residential accommodation by a company, the employee must fulfill the following criteria:
- have worked with company for at least 10 years with at least 4 years in ABC department.
 - have at most 5 members in the family
 - have at least 5 years of service remaining with retirement age being 58 years.
 - not be owner or co-owner (if spouse is owner) of a house

In the case of an employee who:

- satisfies all except (i) above and joined the company as a manager, it should be referred to the Director
- satisfies all except (iii) above and working as senior manager in company, it is to be referred to the Managing Director
- has been transferred from another city, condition (i) can be waived.

Based on above conditions, decide whether or not the accommodation will be provided or the case to be referred to higher authority. All cases are presented on 31st July 2021.

Sakshi stays in a house with 2 other members. Neither she nor her husband owns a house. She is a senior manager in the company for the last years and has been working in the company for the last 12 years with 4 years in ABC department. She will retire in the year 2025.

- The employee is to be provided with accommodation
 - The employee is not to be provided with accommodation
 - Data inadequate
 - The case is to be referred to the Managing Director
54. If an under-trial accused ask the police for permitting him to write some competitive examination and wishes for making suitable arrangements. In this situation what will be the right action on the part of the local police?
- Do not take interest in any such request as an under trial accused has no such right
 - Inform the District Magistrate or any other executive magistrate for suitable direction
 - Give permission to him
 - Get the issue placed before trial Court for suitable direction
55. Which of the following is an intuitive decision?
- With conscious reasoning
 - Without conscious reasoning
 - With conscious reasoning of value nature
 - Without conscious reasoning when faced with high pressure but with conscious reasoning when faced with low pressure
56. You are District Magistrate in an area where some local Naxalite groups are hiding in forests. To abjure violence and become a beneficiary of the peace and development of the country, you want to issue an application on behalf of the Government. Which amongst the following modes of communication could be more effective?
- Cable television
 - Local radio broadcasting
 - National newspapers
 - Local newspapers

57. You have a limited budget for a healthcare initiative. What is the crucial factor to consider when deciding which health programs to fund?
- (a) Popularity of the program (b) Political backing
(c) Program's potential impact on public health (d) The novelty of the program
58. You are competing with your batch-mate for a prestigious award to be decided based on an oral presentation. Ten minutes are allowed for each presentation. You have been asked by the committee to finish on time. Your friend, however, is allowed more than the stipulated time period. You would:
- (a) lodge a complaint to the chairperson against the discrimination
(b) not listen to any justification from the committee
(c) ask for withdrawal of your name
(d) leave the place
59. You, as an administrative authority, have been approached, by the daughter-in-law of an influential person regarding harassment by her in-laws on account of insufficient dowry. Her parents are not able to approach you because of social pressures. You would:
- (a) call the in-laws for an explanation
(b) counsel the lady to adjust, given such a circumstance
(c) take action after her parents approach you
(d) ask her to lodge a complaint with the police
60. You have been asked to give an explanation for not attending an important official meeting. Your immediate boss who has not informed you about the meeting is now putting pressure on you not to place an allegation against him/her. You would:
- (a) send a written reply explaining the fact
(b) seek an appointment with the top boss to explain the situation
(c) admit your fault to save the situation
(d) put the responsibility on your immediate boss
61. The government granted permission to a private firm to establish a nuclear power plant. After a few years, there was a leakage in the plant and the gas killed thousands of people and hundreds are still suffering from disabilities. This problem involves the question of who should pay for the disaster and to whom?
- (a) The private firm should pay the compensation for all the victims
(b) The government should help the victims and the firm
(c) The victims of low income should be helped
(d) The community should compensate the victims
62. As a citizen you have some work with a government department. The official calls you again and again and without directly asking you, sends out feelers for a bribe. You want to get your work done. You would:
- (a) give a bribe
(b) behave as if you have not understood the feelers and persist with your application
(c) go to higher officer for help and verbally complain about feelers
(d) submit an FIR
63. **Statement:** A large private bank has decided to retrench one-third of its employees in view of the huge losses incurred by it during the past three quarters. Courses of action:
- I. The Govt. should issue a notification to general public to immediately: stop all transactions with the bank.
II. The Govt. should direct the bank to refrain from retrenching its employees.
III. The Govt. should ask the central bank of the country to initiate an enquiry into the bank's activities and submit its report.
- (a) Only I (b) Only II
(c) Only III (d) Only I and III

64. You have been ordered to conduct preliminary enquiry into a complaint on alleged embezzlement in scheme implementation in another District against an officer by a competent authority. What would be the process in carrying out the Inquiry?
- Inform the alleged officer of the purpose through phone, take his statement and submit your report.
 - Prepare a tour plan giving a copy to all authorities concerned. Visit the District, and take the statement of the alleged officer and the complainant, and submit your report.
 - Acquaint yourself with the issues related to the complaint. Prepare a tour plan, visit the site of the scheme where the civil work is implemented, and take the statement of the alleged officer, the complainant, the witnesses, and submit your findings.
 - Acquaint yourself with the issues related to the complaint. Prepare a tour plan, visit the site of the scheme where the civil work is implemented, and take the statement of the alleged officer, the complainant, the witnesses, the District Magistrate, the District Judge etc., and submit your findings.
65. There are three events A, B and C, one of which must happen. At a time one can happen. The odds are 8 to 3 against A, 5 to 2 against B, find the odds against C.
- 3:8
 - 43:34
 - 34:77
 - 5:3
66. You are involved in setting up a water supply project in a remote area. Full recovery of cost is impossible in any case. The income level in the area is low and 25% of the population is Below Poverty Line (BPL). When a decision has to be taken on pricing you would
- recommend that the supply of water be free of charge in all respects
 - recommend that the users pay a one-time fixed sum for the installation of taps and the usage of water be free
 - recommend that a fixed monthly charge be levied only on the non-BPL families and for BPL family's water should be free
 - recommend that the users pay a charge based on the consumption of water with differentiated charges for non-BPL and BPL families
67. You are Deputy Secretary in a Department of Government of Mizoram where you are dealing with appointments of 'programmers'. On the basis of a written test, 10 candidates have been shortlisted for two posts. Based on their educational qualifications and work experience, you have to make your recommendations in order of preference. A senior officer of the Government, who is known to you, asks you to recommend the name of Y amongst the first two choices. What will you do?
- Bring the matter to the knowledge of your immediate superior and do as he verbally directs you to do.
 - Comply with the request of senior officer about Y.
 - Examine the profile of 10 candidates and take decision on merit, even if it means exclusion of Y in first two.
 - See to it that Y is not selected at all by putting him down in merit.
68. Which group of letters is different from others?
- CBAED
 - IJHGK
 - SRQPT
 - TVWYZ
69. Amongst five friends, Duati, Chris, Hruaia, Ngura and Saitluanga. Duati is older than only three of her friends. Chris is younger to Ngura and Duati. Hruaia is older than only Saitluanga. Who amongst them is the eldest?
- Ngura
 - Duati
 - Chris
 - Saitluanga

70. Consider the following statements:

All artists are whimsical

Some artists are drug addicts

Frustrated people are prone to become drug addicts

From the statement it may be concluded that

- (a) Artists are frustrated (b) Some drug addicts are whimsical
(c) All frustrated people are drug addicts (d) Whimsical people are generally frustrated

71. If a shirt costs Rs. 40 after a 20% discount, what was its original price?

- (a) Rs. 48 (b) Rs. 50
(c) Rs. 52 (d) Rs. 55

72. If there are no dancers that aren't slim and no singers that aren't dancers, then which statements are always true?

- (a) All dancers are slim (b) There is not one slim person that is not a dancer
(c) All singers are slim (d) All dancers are singers

73. Read the information given below and answer the following question:

- In a family of six persons A,B,C,D,E and F, there are two married couples.
- D is grandmother of A and mother of B.
- C is wife of B and mother of F.
- F is the granddaughter of E.

Who among the following is one of the couples?

- (a) CD (b) DE
(c) CE (d) AF

74. Choose the number pair or group that is different from others.

- (a) 12:48 (b) 9:36
(c) 8:30 (d) 10:40

75. Which term comes next in the series?

YEB, WFD, UHG, SKI,

- (a) QGL (b) TOL
(c) QOL (d) QNL

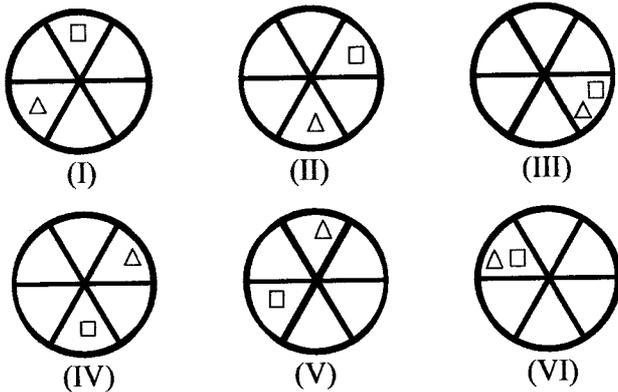
76. Which of the following is the same as wrestling, karate, boxing?

- (a) Swimming (b) Polo
(c) Pole vault (d) Judo

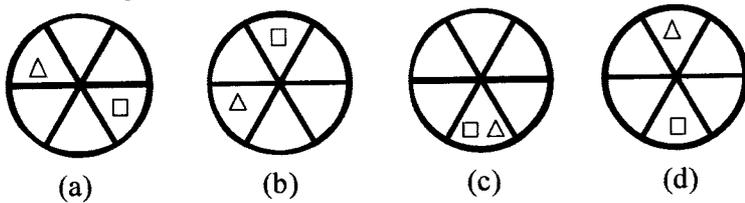
77. CIRCLE is related to RICELC in the same way as SQUARE is related to

- (a) QSUERA (b) QUSERA
(c) UQSAER (d) UQSERA

78. Consider the following figures :



In the figures (I) to (VI) above, some parts are shown to change their positions in regular directions. Following the same sequence, which of the figures given below will appear at (VII) stage?



79. If $A = 2$, $M = 26$, $Z = 52$, then $BET = ?$

- (a) 44
- (b) 54
- (c) 64
- (d) 72

80. The present age of Thakima is 9 times the present age of David. 3 years hence, Thakima's age will be 5 times that of David. Find their present ages.

- (a) 15 years and 30 years
- (b) 5 years and 45 years
- (c) 4 years and 36 years
- (d) 3 years and 27 years

81. I am facing south. I turn right and walk 20 meters. Then I turn right again and walk 10 meters. Then I turn left and walk 10 meters and then turning right walk 10 meters. Then I turn right again and walk 60 meters. In which direction am I from the starting point?

- (a) North-West
- (b) North-East
- (c) North
- (d) West

82. Siamtei can type 1000 pages in 40 days working 8 hours per day. In how many days can she type 1500 pages working 10 hours per day?

- (a) 48 days
- (b) 42 days
- (c) 60 days
- (d) 46 days

83. A person was asked to state his age in years. His reply was, 'Take my age three years hence, multiply it by 3 and then subtract three times my age three years ago and you will know how old I am.' What was the age of the person?

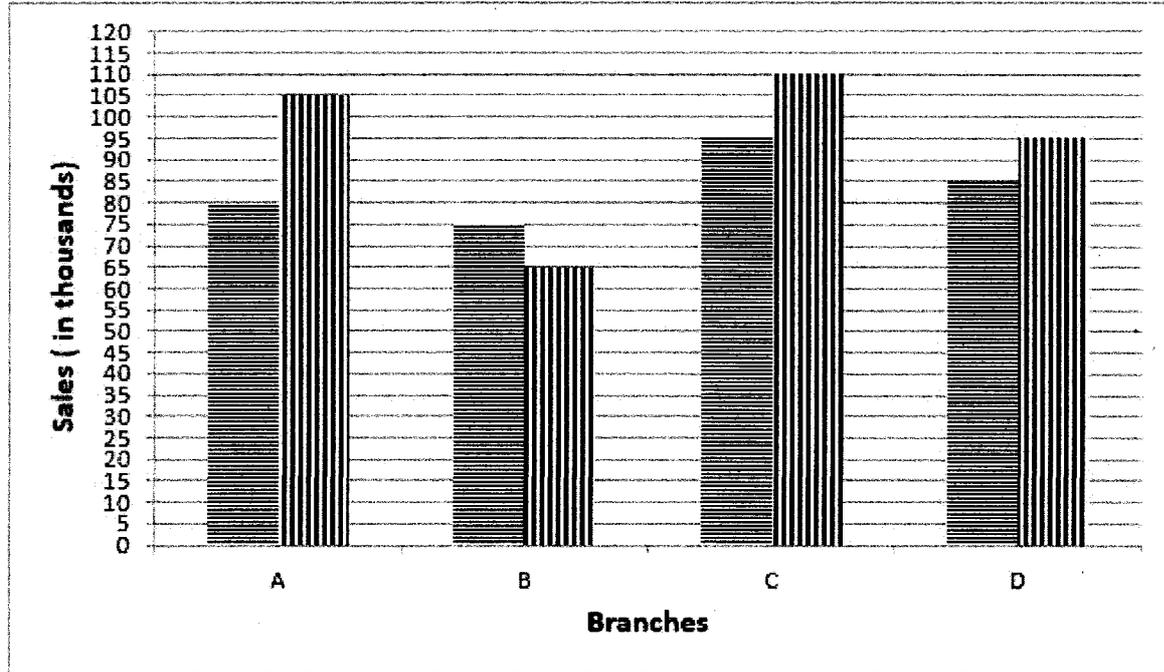
- (a) 18 years
- (b) 20 years
- (c) 24 years
- (d) 32 years

84. If 117 is divided into three parts which are in the ratio $1 : \frac{1}{3} : \frac{1}{6}$, the middle part is -

- (a) 32
- (b) 30
- (c) 28
- (d) 26

85. The average age of A, B and C is 29 years. If the average age of B and C is 32 years, then the age of A is –
- (a) 25 years (b) 24 years
(c) 23 years (d) 22 years
86. After reading $\frac{4}{5}$ of a book, 30 pages are left. How many pages are there in the book?
- (a) 24 (b) 36
(c) 45 (d) 54
87. If 12.5 % sales tax is included in the price of a TV. Then, the original price of the TV bought for ₹3375 is
- (a) ₹1500 (b) ₹1800
(c) ₹3000 (d) ₹3100
88. A shop keeper buys 200 eggs at Rs. 6 each. On the way 20 eggs are broken. He sells the remainder at Rs. 8 each. His gain percent is –
- (a) 20 % (b) 18 %
(c) 15 % (d) 12 %
89. The value of $\sqrt[4]{81} - 8\sqrt[3]{216} + 15\sqrt[3]{32} + \sqrt{225}$ is –
- (a) 5 (b) 3
(c) 2 (d) 0
90. Two poles of heights 10 m and 18 m stand on a plane ground. If the distance between the feet of the poles is 15 m, then the distance between their tops is –
- (a) 17 m (b) 13 m
(c) 12 m (d) 24 m
91. The diameter of each of the wheel of a bus is 140 cm. The distance covered by the wheel in 8 revolutions is –
- (a) 40 m (b) 38 m
(c) 35.2 m (d) 33.5 m
92. The length of a minute hand of a clock is 14 cm. The area swept by the minute hand in 5 minutes is –
- (a) 49.2 cm^2 (b) 50.5 cm^2
(c) 51.3 cm^2 (d) 52.4 cm^2
93. In a group of 500 persons, 350 can speak English and 240 can speak Hindi. If some persons can speak both English and Hindi, then the number of persons who can speak Hindi only is –
- (a) 150 (b) 160
(c) 175 (d) 184
94. The 21st term of AP whose first two terms are –3 and 4 is
- (a) 120 (b) 137
(c) 140 (d) 143
95. Cards bearing numbers 2,4,6,8,10,12,14,16,18 and 20 are kept in a bag. A card is drawn at random from the bag. The probability of getting a card which has a number that is not a multiple of 6 is
- (a) $\frac{3}{10}$ (b) $\frac{7}{10}$
(c) $\frac{2}{5}$ (d) $\frac{3}{5}$

96. The bar graph given below shows the sales of books (in thousands) from four branches of a publishing company during two consecutive years.



- What is the ratio of the total sales of branch B for both years to the total sales of branch D for both years?
- (a) 2:3 (b) 3:5
(c) 4:5 (d) 7:9
97. On dividing a number by 68, we get 269 as the quotient and 0 as the remainder. On dividing the same number by 67, the remainder is
- (a) 1 (b) 2
(c) 3 (d) 0
98. A train 50 meters long passes a platform 100 meters long in 10 seconds. If the speed of the train is X km/hr, the value of X is
- (a) 150 km/hr (b) 15 km/hr
(c) 54 km/hr (d) 50 km/hr
99. If $\frac{(x)^{\frac{4}{3}}}{32} = \frac{128}{(x)^{\frac{5}{3}}}$, then the value of x is
- (a) 16 (b) 14
(c) 12 (d) 11
100. The mean of 50 observations is 36. It was found later that the observation 48 was wrongly taken as 23. What is the corrected new mean?
- (a) 34.1 (b) 35.5
(c) 36.5 (d) 39.1