

**Government of West Bengal
Labour Department
State Labour Institute**

LASTDATE: 31.01.2024

P-3, CIT Scheme- VII M, Manicktala Main Road, Kankurgachi, Kolkata- 700054

Phone: 033-23208854, 033-23201963

Email: statelabourinstitute1@gmail.com

Admission to the One Year “Advanced Diploma in Construction Safety” (ADCS) Course (2023-2024 Session)

(Accredited by WB State Council of Technical & Vocational Education and Skill Development)

Online applications are invited for admission to the above One-year full-time regular day course conducted by the State Labour Institute under the Labour Department, Government of West Bengal. [\(View Course Curriculum-Annexure A\)](#)

No of Seats:

State Labour Institute, Government of West Bengal offers One year Advanced Diploma in Construction Safety Course (ADCS) at the Kolkata and Asansol Centres.

Name of the Centre & Address	No of Seats	
	Non sponsored Candidates	Sponsored Candidates
State Labour Institute, Kolkata P-3, CIT Scheme, VII-M Manicktala Main Road, P.O. Kankurgachi, Kolkata, Pin -700054	25	05
State Labour Institute, Asansol Kanyapur, Asansol, Dist-Paschim Burdwan, Pin-713341.	20	05

(1) Eligibility Criteria:

For Non-Sponsored Candidates: (i) Degree/Diploma in Mechanical, Civil, Structural, or Construction Engineering and Architectural Engineering recognized by the State Government or (ii) Science Graduate (with Physics, Chemistry & Mathematics combination) from a recognized university.

For Sponsored Candidates: Requisite qualification as stated above along with work experience of working in a construction or other industrial organization **for at least one year**. The Employer has to certify the candidate in proper format. [\(View Format of Certification-Annexure B\)](#).

(2) Selection Procedure:

A. ***Non -Sponsored candidates will be selected through an admission test.***

Date of Admission Test (tentative): 18th February, 2024 (SUNDAY)

The Admission Test will be of 100 marks having General Knowledge & Current Affairs, Logical Reasoning, Mathematical Ability and English Grammar & Composition. [\(View](#)

- B. ***Sponsored candidates*** will be selected through an Interview tentatively in the month of **February, 2024**, the date of which will be communicated later.

Admit Card for the admission test and interview will be available

Online before Admission Test/Interview

- (3) **Course Fee:**(one time course fee to be deposited online after selection through admission test/interview)

For Non-Sponsored Candidates: **Rs 8,000/-**

For Sponsored Candidates: **Rs 12,000/-**

- (4) **Reservation of seats:**

As per Rules of Government of West Bengal

- (5) **Application:**

The candidates have to fill up online application form.

The last date for submission of online application: 31.01.2024

*** **List of documents to be uploaded** by the applicant at the time of application is mentioned in **Annexure-C**

- (6) **Application Fee (Non Refundable):** **Rs.100/-**

Candidates are required to pay application Fees of Rs.100/-in favour of **State Labour Institute** through **online mode of payment** in the following account:

Name of the Account:	Director, State Labour Institute
Account No:	0263104000061375
Bank & Branch:	IDBI Bank, Kankurgachi Branch
IFSC Code:	IBKL0000263

APPLY ONLINE

Applications found incomplete /defective / without application Fees /will be rejected.

Annexure-A (Course Curriculum)

Government of West Bengal
STATE LABOUR INSTITUTE
 P-3, CIT Scheme VII-M, Maniktala Main Road, Kankurgachhi, Kolkata-700054
 Phone: 033-2320-8854, 033-2301963
 Email: statelabourinstitute1@gmail.com

Syllabus for **One year “ADVANCED DIPLOMA IN CONSTRUCTION SAFETY”**
 (ADCS Course-Academic Session **2023-24**)

(Accredited by WB State Council of Technical & Vocational Education and Skill Development)

Course Curriculum: Divided into two Semesters-each semester consist of Six (6) papers of 100 marks each

Semester-I

Paper	Topic
Paper-I	Safety Management-I
Paper-II	Safety Management-II
Paper-III	Construction Safety Engineering-I
Paper-IV	Construction Safety Engineering-II
Paper-V	Appraisal, Analysis, Inspection and Control Procedures
Paper-VI	Statutory Provisions on Construction Safety

Semester-II

Paper	Topic
Paper-VII	Occupational Health and Safety-I
Paper-VIII	Occupational Health and Safety-II
Paper-IX	Safety in Construction Operation-I
Paper-X	Safety in Construction Operation-II
Paper-XI	Field Visit, Case study & Report Submission
Paper-XII	Seminar & Viva-Voce

Paper	Topic
Paper-I	Safety Management-I
1.1	Introduction to Health, Safety, Welfare and Environment
1.2	Principles of Accident Prevention & Risk Management
1.3	Organizational Behaviour and Safe Project Management
Paper-II	Safety Management-II
2.1	Safety Education and Training
2.2	Safety Organization
2.3	Management Information System
Paper-III	Construction Safety Engineering-I
3.1	Manual Handling of Materials
3.2	Mechanical Handling of Materials
3.3	Stacking, Storage and Handling Construction Materials
3.4	Safety in use of Construction Machinery and Equipment
3.5	Hand Tools, Portable & Hydraulic Tools
Paper-IV	Construction Safety Engineering-II
4.1	Housekeeping
4.2	Industrial Lighting
4.3	Ventilation and Heat Control
4.4	Electrical Safety
4.5	Fire Safety
4.6	Environmental Pollution

Paper-V	Appraisal, Analysis, Inspection and Control Procedures
5.1	Construction Site and Equipment Safety Appraisal & Control Techniques
5.2	Hazard Identification Techniques
5.3	Accident Investigation Reporting and Analysis
5.4	Measurement and Control of Performance
Paper-VI	Statutory Provisions on Construction Safety
6.1	Safety & Law-Indian Standards on Construction Safety
6.2	Safety & Law-International Standards and References
6.3	Provisions relating to Safety, Health & Environment in other important legislations
Paper-VII	Occupational Health & Safety-I
7.1	Chemical & Biological Hazards at Construction Operation/Projects & Control
7.2	Physical and Psychological Health Hazards and Control
7.3	Work Physiology & Ergonomics
Paper-VIII	Occupational Health & Safety-II
8.1	Occupational Health Safety(OHS)
8.2	Personal Protective Equipment (PPEs)
8.3	Welfare Facilities
Paper-IX	Safety in Construction Operation-I
9.1	Temporary Structure at Work Site
9.2	Underground Works
9.3	Above Ground Works
9.4	Work at Height

9.5	Under Water Operations & Working around Water Bodies
9.6	Safety in Demolition Operations
Paper-X	Safety in Construction Operation-II
10.1	Confined Space
10.2	Pre stressed Concrete Structure
10.3	Movement of Materials and Personnel
10.4	Blasting Operation Related Safety (Including Handling, Storing of Explosives Related Safety)
10.5	Road Works
10.6	Special Works
10.7	Special Operations
Paper-XI	Field Visit, Case Study & Report Submission
Paper-XII	Seminar & Viva-Voce

Annexure-B
(Format of Certification)

NO OBJECTION CERTIFICATE

(In official letterpad)

To
The Director,
State Labour Institute, P-3,
CIT Scheme,
VII-M Manicktala Main Road,
P.O. Kankurgachi, Kolkata, Pin-700054.

Sir/Madam,

This is to certify that Sri/Smt _____, residing
at _____, is working in this organization as _____
w.e.f _____.

This organization has no objection in allowing Sri/Smt
_____ to undertake the **Advanced Diploma in Construction
Safety** Course (One Year, Regular) for 2022-23 session.

Authorized Signatory

Annexure-C**List of Documents to be uploaded at the time of applying ONLINE**

1. Colour Photograph of the applicant(in *JPG/JPEG*)
2. Proof of Date of Birth (in PDF)
3. Proof of address (in PDF)
4. Marksheet of Graduation/ Diploma(as applicable)(in PDF)
5. Caste Certificate(in PDF)(if applicable)
6. Employment Certificate (for sponsored candidates only)(in PDF)
7. Transaction Document regarding payment of Application fee amounting
Rs. 100/-(in PDF)

ANNEXURE-³D

Question Paper - cum-Answer Booklet

Total Marks: 100

Time: 90 minutes

English Language :	Question No 01 to 20 (20 Questions)	[20 Marks]
General Knowledge & Current Affairs :	Question No 21 to 40 (20 Questions)	[20 Marks]
Mathematical Ability :	Question No 41 to 60 (20 Questions)	[40 Marks]
Logical Reasoning :	Question No 61 to 80 (20 Questions)	[20 Marks]

Before filling up answer sheet please read the instruction carefully :

1. There are 80 no. of questions in this sheet; you have to answer all questions using Tick (✓) mark against the appropriate answer in the box provide.
2. There is no negative marking.
3. For rough work, please use rough sheets provided at the end of the "Question cum Answer Booklet".
4. Use ball pointed pen (black / blue) for marking the answer.

ENGLISH LANGUAGE :

[Q. 1 - 5 | Fill in the blanks with appropriate Word :

1. The village was widespread _____ rumours of deaths due to an unknown disease.

(a) with ☐

(b) for ☐

(c) of ☐

(d) by ☐

2. Kalpana specializes _____ astrophysics.

(a) on ☐

(b) in ☐

(c) about ☐

(d) over ☐

3. Meena is the _____ of the three sisters.

(a) youngest ☐

(b) bigger ☐

(c) older ☐

(d) younger ☐

4. I answered the _____ question.

(a) Late ☐

(b) Latter ☐

(c) Later ☐

(d) near ☐

5. Recently I have taken an interest _____ painting.

(a) In ☐

(b) About ☐

(c) On ☐

(d) With ☐

[Q. 6 - 10 | Follow the directions for each of the questions.

6. "Karnataka grows coffee". — Change the voice.

(a) Coffee has being growing in Karnataka ☐

(b) Coffee be grown in Karnataka ☐

(c) Coffee grown in Karnataka ☐

(d) Coffee is grown in Karnataka ☐

7. I am leaving for England tomorrow. — Change to future continuous

(a) I will be leaving for England tomorrow ☐

(b) I will leave for England next day ☐

(c) Tomorrow I leave for England ☐

(d) I have been leaving for England tomorrow ☐

8. Harry said to Sally, "I will meet you tomorrow". — Change the speech

(a) Harry asked Sally to meet her tomorrow ☐

(b) Harry told Sally that he would meet her tomorrow ☐

(c) Harry told Sally that he would meet her the next day ☐

(d) Harry wished to meet Sally the next day ☐

9. The Earth round the sun (Choose the correct form of verb)

(a) has been moving ☐

(b) is moving ☐

(c) had moved ☐

(d) had been moving ☐

10. She visits her aunt frequently — Find the opposite of "frequently"

(a) Rarely ☐

(b) Purposely ☐

(c) nearly ☐

(d) Occasionally ☐

[Q. 11 - 15] Choose the correct meaning of the following idioms / phrases.

11. "Selling like hot cakes" —

(a) Item which is of great commercial success ☐

(b) Selling Very hot items ☐

(c) Selling unpopular items ☐

(d) Selling unwanted items ☐

12. "A bolt from the blue" —

(a) Blue bird from the sky ☐

(b) Unexpected incident ☐

(c) Much awaited incident ☐

(d) Waves from blue sea ☐

13. "Stabbed in the back" —

(a) Hit in the back ☐

(b) Perfect crime ☐

(c) False excuse ☐

(d) Betrayed ☐

14. "Make hay while the sun shines" means —

(a) Prepare hay in sunlight ☐

(b) Fight for difficulties ☐

(c) Make most of a favourable situation ☐

(d) Work for good cause while it lasts ☐

15. "Black sheep" —

(a) Sheep black in colour ☐

(b) Someone to be proud of ☐

(c) Someone who is considered as disgrace/embarrassment ☐

(d) Sportsman ☐

16- 20 : Read the paragraph and answer questions below:

Satyajit Ray, the Indian film maker, movie director, music composer, writer, painter and illustrator brought the Indian cinema to world recognition. Born in a Benagli literary family at Kolkata on 2nd May, 1921, he is the son of Sukumar Ray and grandson of Upendra Kishore Ray, both great Bengali literary personalities. Starting his career as a commercial artist, he was drawn into independent film making and his first film "Pather Panchali" (1955) won eleven International Awards including the inaugural Best Human Document Award at the 1956 Cannes Film Festival. This film along with Aparajito (1956) and Apur Sansar (1959) form the Apu Trilogy. His other masterpieces are "Jalshaghar", "Parashpathar", "Debi", "Charulata", "Kanchanjanga", "Teen Kanya", "Abhijan", "Mahanagar", "Nayak", "Goopi Gayen Bagha Bayen", "Sonar Kella" and many others. Ray received major awards in his career including 36 Indian National Film Awards and other recognitions from the world. He was conferred with "Bharat Ratna", the highest civilian award by Government of India in May 1992. The Academy of Motion Picture Arts and Sciences awarded Satyajit Ray an Honorary Award in 1992 for lifetime achievement. He directed 36 feature films, documentaries and authored several short stories and novels primarily for young children and teenager. "Feluda" the iconic detective and "Professor Shanku", the scientist, are two fictional characters created by him.

16. Find a word in the paragraph which means "widely known"—

(a) Awards ☐ (b) Recognition ☐

(c) Inaugural ☐ (d) Achievement ☐

17. Satyajit Ray's first movie is —

(a) Charulata ☐ (b) Apur Sansar ☐

(c) Pather Panchali ☐ (d) Aparajito ☐

18. The word authored means —

(a) directed ☐ (b) composed ☐

(c) reported ☐ (d) wrote ☐

19. Which of the following fictional character is created by Satyajit Ray—

(a) Professor Shanku ☐ (b) Nayak ☐

(c) Apu ☐ (d) Charulata ☐

20. The word "masterpiece" in the passage means —

(a) recognize ☐ (b) confer an honour ☐

(c) classic ☐ (d) failure ☐

GENERAL KNOWLEDGE & CURRENT AFFAIRS (Q 21-40)

21. Which of the following was not known to the people of the Indus Valley —
- | | | | |
|------------|--------------------------|------------|--------------------------|
| (a) Iron | <input type="checkbox"/> | (b) Gold | <input type="checkbox"/> |
| (c) Copper | <input type="checkbox"/> | (d) Silver | <input type="checkbox"/> |
22. Which Governor General of India abolished the "Sati Dahi" system —
- | | | | |
|---------------------------|--------------------------|--------------------|--------------------------|
| (a) Lord Canning | <input type="checkbox"/> | (b) Lord Ripon | <input type="checkbox"/> |
| (c) Lord William Bentinck | <input type="checkbox"/> | (d) Lord Dalhousie | <input type="checkbox"/> |
23. In which city of India is the "Char Minar" located?
- | | | | |
|---------------|--------------------------|---------------|--------------------------|
| (a) Bangalore | <input type="checkbox"/> | (b) New Delhi | <input type="checkbox"/> |
| (c) Kolkata | <input type="checkbox"/> | (d) Hyderabad | <input type="checkbox"/> |
24. The study of Universe is known as —
- | | | | |
|----------------|--------------------------|-----------------|--------------------------|
| (a) Astronomy | <input type="checkbox"/> | (b) Cosmology | <input type="checkbox"/> |
| (c) Morphology | <input type="checkbox"/> | (d) Cosmetology | <input type="checkbox"/> |
25. Manas National Park is in which Indian state?
- | | | | |
|--------------------|--------------------------|-------------------|--------------------------|
| (a) Assam | <input type="checkbox"/> | (b) Maharashtra | <input type="checkbox"/> |
| (c) Madhya Pradesh | <input type="checkbox"/> | (d) Uttar Pradesh | <input type="checkbox"/> |
26. The 42nd Amendment of Indian Constitution introduced —
- | | | | |
|-------------------------------------------|--------------------------|---------------------------------|--------------------------|
| (a) Panchayati Raj | <input type="checkbox"/> | (b) Right to Education | <input type="checkbox"/> |
| (c) Socialist, Secular
in the preamble | <input type="checkbox"/> | (d) Increase in Lok Sabha seats | <input type="checkbox"/> |
27. Which countries lie on either side of the McMahon Line —
- | | | | |
|--------------------------|--------------------------|------------------------|--------------------------|
| (a) India and Bangladesh | <input type="checkbox"/> | (b) Nepal and India | <input type="checkbox"/> |
| (c) India and China | <input type="checkbox"/> | (d) India and Pakistan | <input type="checkbox"/> |
28. Amazon River flows through which of the following country?
- | | | | |
|------------|--------------------------|------------|--------------------------|
| (a) Brazil | <input type="checkbox"/> | (b) USA | <input type="checkbox"/> |
| (c) France | <input type="checkbox"/> | (d) Canada | <input type="checkbox"/> |

29. The substance most commonly used as a food preservative is —
- | | | | |
|------------------------|--------------------------|-------------------|--------------------------|
| (a) sodium bicarbonate | <input type="checkbox"/> | (b) tartaric acid | <input type="checkbox"/> |
| (c) acetic acid | <input type="checkbox"/> | (d) benzoic acid | <input type="checkbox"/> |
30. In refrigerators, the liquid used as refrigerant is —
- | | | | |
|---------------------------|--------------------------|------------------------|--------------------------|
| (a) liquid carbon dioxide | <input type="checkbox"/> | (b) liquid nitrogen | <input type="checkbox"/> |
| (c) liquid ammonia | <input type="checkbox"/> | (d) super cooled water | <input type="checkbox"/> |
31. When a pencil is partly immersed in water in a slanting position, the immersed portion appears —
- | | | | |
|-----------------------------|--------------------------|------------------------------------|--------------------------|
| (a) bent towards the bottom | <input type="checkbox"/> | (b) bent towards the water surface | <input type="checkbox"/> |
| (c) bent in a zigzag manner | <input type="checkbox"/> | (d) curved downward | <input type="checkbox"/> |
32. When the velocity of a body is doubled, it's —
- | | | | |
|-------------------------------|--------------------------|---------------------------------|--------------------------|
| (a) acceleration is doubled | <input type="checkbox"/> | (b) momentum is doubled | <input type="checkbox"/> |
| (c) kinetic energy is doubled | <input type="checkbox"/> | (d) potential energy is doubled | <input type="checkbox"/> |
33. Global warming is caused by
- | | | | |
|---------------------|--------------------------|--------------|--------------------------|
| (a) Carbon dioxide | <input type="checkbox"/> | (b) Ammonia | <input type="checkbox"/> |
| (c) Carbon monoxide | <input type="checkbox"/> | (d) Nitrogen | <input type="checkbox"/> |
34. _____ is an example of a liquid metal?
- | | | | |
|---------------|--------------------------|-------------|--------------------------|
| (a) Aluminium | <input type="checkbox"/> | (b) Mercury | <input type="checkbox"/> |
| (c) Argon | <input type="checkbox"/> | (d) Helium | <input type="checkbox"/> |
35. Which of the following is the main system board of computer?
- | | | | |
|--------------|--------------------------|-----------------|--------------------------|
| (a) CPU | <input type="checkbox"/> | (b) Motherboard | <input type="checkbox"/> |
| (c) Keyboard | <input type="checkbox"/> | (d) Microchip | <input type="checkbox"/> |
36. Ohm's law relates to?
- | | | | |
|-----------------|--------------------------|---------------|--------------------------|
| (a) Electricity | <input type="checkbox"/> | (b) Sound | <input type="checkbox"/> |
| (c) Heat | <input type="checkbox"/> | (d) Magnetism | <input type="checkbox"/> |
37. ILO stands for —
- | | | | |
|--------------------------------|--------------------------|---------------------------------------|--------------------------|
| (a) Indian Labour Organization | <input type="checkbox"/> | (b) International Labour Organization | <input type="checkbox"/> |
| (c) Indian Law Organization | <input type="checkbox"/> | (d) Indian Legal Organization | <input type="checkbox"/> |

38. The unit of Force is —

(a) Joule ☐

(b) Ampere ☐

(c) Volt ☐

(d) Newton ☐

39. Mirabai Chanu won Bronze in Tokyo Olympic in which event ?

(a) Wrestling ☐

(b) Weightlifting ☐

(c) Javelin ☐

(d) Rifle shooting ☐

40. Where was the omicron variant of COVID 19 first detected ?

(a) China ☐

(b) South Korea ☐

(c) South Africa ☐

(d) Bangladesh ☐

MATHEMATICAL ABILITY (Q 41-60)

41. Ratio between areas of two squares is 36:25. What would be the ratio between their perimeters ?

(a) 5:4 ☐

(b) 6:5 ☐

(c) 4:6 ☐

(d) 8:7 ☐

42. A wheel can travel 22 km. in 100 rounds. Find the radius of that wheel.

(a) 42 m. ☐

(b) 28 m. ☐

(c) 35 m. ☐

(d) 49 m. ☐

43. A rectangular plot has the ratio of 5:3 between length and breadth. If the perimeter of the plot is 320 meter. What's the area of the plot?

(a) 6000 square meter ☐

(b) 12000 square meter ☐

(c) 4500 square meter ☐

(d) 18000 square meter ☐

44. In a right angled triangle the length of the base is 5 m, and its hypotenuse is 13 m. The area of the triangle is—

(a) 25 square meter ☐

(b) 28 square meter ☐

(c) 30 square meter ☐

(d) 37 square meter ☐

45. Ratio between the length and breadth of a rectangular field is 9:4. Rs.14400 is spent on the implantation of grass on this field. If the rate of implantation is Rs. 4 per meter square. What is the breath of the field ?
- (a) 38 m. ☐ (b) 48 m. ☐
 (c) 42 m. ☐ (d) 40 m. ☐
46. If an amount triples in 25 years at simple interest then the rate of interest will be—
- (a) 8% ☐ (b) 5% ☐
 (c) 4% ☐ (d) 6% ☐
47. A man on tour travels first 160 km. at 64 km/hr. and the next 160 km. at 80 km/hr. The average speed for the first 320 km. of the tour is—
- (a) 35.55 km/hr. ☐ (b) 36 km/hr. ☐
 (c) 71.11 km/hr. ☐ (d) 71 km/hr. ☐
48. Akash leaves mumbai at 6 am and reaches Bangalore at 10am. Prakash leaves Bangalore at 8 am and reaches Mumbai at 11:30 am. At what time do they cross each other ?
- (a) 10 am ☐ (b) 8:32 am ☐
 (c) 8:56 am ☐ (d) 9:20 am ☐
49. A man travelled from the village to the post-office at the rate of 25 kmph. and walked back at the rate of 4 kmph. If the whole journey took 5 hours 48 minutes, find the distance of the post-office from the village ?
- (a) 40 km. ☐ (b) 30 km. ☐
 (c) 20 km. ☐ (d) 10 km. ☐
50. Excluding stoppages, the average speed of a bus is 60 km/hr. and including stoppages, the average speed of the bus is 40 km/hr. For how many minutes does the bus stop per hour ?
- (a) 2 hrs. ☐ (b) 20 min. ☐
 (c) 40 min. ☐ (d) 30 min. ☐
51. Two bike riders ride in opposite directions around a circular track, starting at the same time from the same point. Biker A rides at a speed of 16 kmph and biker B rides at a speed of 14 kmph. If the track has a diameter of 40 km, after how much time (in hours) will the two bikers meet?
- (a) 6.52 ☐ (b) 8.14 ☐
 (c) 4.18 ☐ (d) 5.02 ☐

52. Rajesh rows in still water with a speed of 4.5 kmph. to go to a certain place and comes back. Find his average speed for the whole journey, if the river is flowing with a speed of 1.5 kmph. ?
- (a) 2 kmph. ☐ (b) 4 kmph. ☐
 (c) 6 kmph. ☐ (d) 8 kmph. ☐
53. A is 40% more efficient than B and C is 20% less efficient than B. Working together, they can complete a task in 20 hours. In how many hours will A alone complete 35% of that task ?
- (a) 14 ☐ (b) 15 ☐
 (c) 13 ☐ (d) 16 ☐
54. If x is the mean proportional between 12.8 and 64.8 and y is the third proportional to 38.4 and 57.6, then $2x : y$ is equal to :
- (a) 2:3 ☐ (b) 4:5 ☐
 (c) 3:4 ☐ (d) 1:2 ☐
55. Madhu started a business and invested Rs.76000. After some months Amar joined him by investing Rs. 57000. At the end of the year, the total profit was divided between them in the ratio of 2 : 1. After how many months did Amar join ?
- (a) 3 months ☐ (b) 4 months ☐
 (c) 7 months ☐ (d) 8 months ☐
56. After successive discounts of 20% and 25%, the selling price is Rs. 288/-. What is the marked price of the article ?
- (a) Rs. 520/- ☐ (b) Rs. 480/- ☐
 (c) Rs. 460/- ☐ (d) Rs. 500/- ☐
57. The average age of 14 girls and their teacher's is 15 years. If the teacher's age is excluded the average age reduces by 1. Find the age of the teacher,
- (a) 35 years ☐ (b) 32 years ☐
 (c) 29 years ☐ (d) 30 years ☐

58. Walking $\frac{5}{7}$ of his usual speed, a person reaches his office 10 minutes later than the usual time. His usual time in reaching office is :
- (a) 28 minutes ☐ (b) 30 minutes ☐
 (c) 25 minutes ☐ (d) 35 minutes ☐
59. P, Q, R are employed to do a work for Rs. 5750. P and Q together finished $\frac{19}{23}$ of work and Q and R together finished $\frac{8}{23}$ of work. Wage of Q, is —
- (a) Rs. 2850 ☐ (b) Rs. 3750 ☐
 (c) Rs. 2750 ☐ (d) Rs. 1000 ☐
60. A sum of Rs. 312 was divided among 100 boys and girls in such a way that each boy gets Rs. 3.60 and each girl Rs. 2.40. The number of girls is :
- (a) 35 ☐ (b) 40 ☐
 (c) 60 ☐ (d) 65 ☐

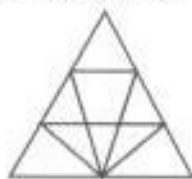
LOGICAL REASONING (Q. 61-80)

61. Find the odd man out in the series given below :

396, 462, 572, 427, 671, 264.

- (a) 671 ☐ (b) 462 ☐
 (c) 427 ☐ (d) 264 ☐

62. Find the number of triangles in the given figure.



- (a) 12 ☐ (b) 18 ☐
 (c) 22 ☐ (d) 26 ☐
63. If 1st January 2007 is a Monday, what day will 1st January 2008 be?
- (a) Monday ☐ (b) Tuesday ☐
 (c) Wednesday ☐ (d) Sunday ☐

64. The difference between the place value and the face value of 7 in the numeral 967452 is —

(a) 6393 ☐

(b) 6993 ☐

(c) 6339 ☐

(d) 5831 ☐

65. Annie who is the sister in law of Raj, is the daughter in law of Rani. Raja is the father of Mani who is the only brother of Raj. How Rekha is related to Raj ?

(a) Mother in law ☐

(b) Aunt ☐

(c) Wife ☐

(d) Data inadequate ☐

66. After walking 15 meters towards South Alex turned to the left and walked 15 meters. He again turned to his left and walked 15 meters. How far is he from his original position and in which direction ?

(a) 15 meters North ☐

(b) 15 meters South ☐

(c) 15 meters East ☐

(d) 15 meters West ☐

Read the following information carefully and answer the questions given below it. (67 - 71)

(i) Six friends P, Q, R, S, T and U are member of a club and play a different game of Football, Cricket, Tennis, Basketball, Badminton and Volleyball.

(ii) T who is taller than P and S plays Tennis.

(iii) The tallest among them plays basketball.

(iv) The shortest among them plays Volleyball.

(v) Q and S neither play Volleyball nor Basketball.

(vi) R plays Volleyball.

(vii) T is between Q who plays football and P in order of height.

67. What does S play?

(a) Football ☐

(b) Either Cricket or Badminton ☐

(c) Cricket ☐

(d) Badminton ☐

68. Who among them is taller than R but shorter than P ?

(a) T ☐

(b) S ☐

(c) Q ☐

(d) U ☐

69. Who among them plays Basketball ?

(a) S ☐

(b) U ☐

(c) Q ☐

(d) R ☐

70. Which of the following statements is not true ?

(a) T is taller than R ☐

(b) U is taller than Q ☐

(c) P is shorter than R ☐

(d) Q is taller than S ☐

71. Who will be at the third place if they are arranged in descending order of their height ?

(a) T ☐

(b) Q ☐

(c) P ☐

(d) S ☐

72. Find the missing number 4, 7, 12, ..., 28, 39 —

(a) 19 ☐

(b) 24 ☐

(c) 14 ☐

(d) 16 ☐

73. "A train always has _____". Choose the best alternative as the answer —

(a) Engine ☐

(b) Passengers ☐

(c) Driver ☐

(d) Guard ☐

74. If D is the brother of B, how B is related to C ? To answer this question which of the statements is/are necessary ?

1. The son of D is the grandson of C.

2. B is the sister of D.

(a) Only 1 ☐

(b) Only 2 ☐

(c) Either 1 or 2 ☐

(d) 1 and 2 both ☐

75. Cup is to Coffee as Bowl is to —

(a) Dish ☐

(b) Soup ☐

(c) Spoon ☐

(d) Food ☐

Study the following arrangement and answer the questions (Q. 76 - 77)

Y C B A D R M Q S W F K O Z N T G P

76. Which of the following is 5th to the right of 10th from the right end of the given arrangement ?
- (a) Z ☐ (b) S ☐
 (c) K ☐ (d) O ☐
77. If the 1st half of the above series is written in reverse order, then find the 3rd letter to the right of 5th letter from the left end.
- (a) C ☐ (b) Y ☐
 (c) B ☐ (d) A ☐
78. If in a certain language PAINT is written as 91547 and EXCEL is written as 32638 then how will ACCEPT be written in the code language ?
- (a) 166958 ☐ (b) 688475 ☐
 (c) 344197 ☐ (d) 166397 ☐
79. If cat is called horse, horse is called mouse, mouse is called dog, dog is called lion and lion is called ant then which animal barks ?
- (a) Horse ☐ (b) Ant ☐
 (c) Dog ☐ (d) Lion ☐
80. Calm: Cool:: Abandon : ?
- (a) Down ☐ (b) Leave ☐
 (c) Attract ☐ (d) Clear ☐