



Booklet Serial No. SAS: 094

Name (in Block letters)

Roll No.:

Candidate's Signature:

Date:

INSTRUCTIONS

- (1) In this test, you will be given a Question Booklet and a separate OMR Answer Sheet to choose your answers.
- (2) Please write your Name, Roll No., and other details in the Question Booklet and also in the OMR Answer Sheet as asked for. In addition, please darken the corresponding circles of your Name and Roll No. in the OMR Answer Sheet. DO NOT BREAK THE SEAL of the question booklet unless asked for.
- (3) The OMR Answer Sheet contains the serial number of questions as given in the Question Booklet. Against each question number, there are four circles marked as a, b, c, and d which correspond to the four answer options of which one is to be darkened on the OMR Answer Sheet only.
- (4) OMR Answer Sheet to be filled by **BALL POINT PEN (blue or black ink) only.**
- (5) Make sure that your answer is clearly marked. In case you choose more than one alternative for any question, your answer will be considered wrong.
- (6) The OMR Answer Sheet only will be considered for evaluation.
- (7) Total marks of this test is 100 and time allotted for the test is 120 minutes.
- (8) All rough works are to be done on the Question Booklet itself. **Nothing should be written/marked in OMR sheet other than asked for.**
- (9) Mobile phone, laptop, tablet phone or any other electronic devices except calculators are not allowed inside the examination hall.
- (10) **At the end of the examination, you have to hand over both the question booklet and the answer sheet to the invigilator.**

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Senior Assistant Secretary

Part I

(Each question carries 1 mark)

Direction for question No. 1 to 5: From among the given alternatives choose the one that best completes the meaning of the sentence.

1. I am shocked by your attitude.
a. grossly b. severely
c. highly d. deeply
2. They reached their production with a month to spare.
a. goal b. aim
c. target d. mark
3. Two frontier guards were wounded in a boarder last week.
a. incident b. event
c. occasion d. casualty
4. The novel contains some marvelously revealing of life.
a. glances b. shots
c. glimpses d. insight
5. The death was abolished in 1965.
a. punishment b. penalty
c. penance d. pain

Direction for question No. 6 to 10: Find out the correct answer from the given alternatives.

6. If in a certain language PROSE is coded as PPOQE, how 'LIGHT' is coded in that language?
a. LGGFT b. LIGFT
c. LGGHT d. LLGFE
7. If in a certain language, KNOWLEDGE is coded as 256535475, how is 'GENERAL' coded in that language?

- a. 7545993 b. 7969393
c. 7555913 d. 7555991

8. If 'wne si cpso ptm' stands for 'Suresh got sweet eyes', 'msi wne ptm' means 'large sweet eyes' and 'wne ptm rti si npo' stand for 'Rohit got sweet eyes too', what would 'got' stand for?
a. pqr b. spa
c. npj d. imn
9. Manju goes 30 meters North then turns right and walks 40 meters, then again turns right and walks 20 meters, then again turns right and walks 40 meters. How many meters is he from his starting point?
a. 0 b. 20
c. 10 d. 05
10. Six students are sitting in a row. K is sitting between V and R. V is sitting next to M. M is sitting next to B, who is sitting on the extreme left and Q is sitting next to R. The sitting layout of the students is?
a. BMRVKQ b. BVRMKQ
c. BRMKVQ d. BMVKRQ

Direction for question No. 11 to 15: Find out the correct answer from the given alternatives.

11. An elevator has the capacity of 12 adults or 20 children. How many adults can board the elevator with 15 children?
a. 6 b. 5 c. 4 d. 3
12. What is the next number in this series?
6, 24, 60, 120, 210, 336, 504, ?
a. 606 b. 720 c. 804 d. 832
13. There are some cows, bulls and 45 hens in a group. One caretaker looks after 15 animals. The number of bulls is twice the number of cows. If the number of head is less than the total number of feet by 186 (including the care taker), how many care takers are there?
a. 5 b. 6 c. 7 d. 8

* Options provided are incorrect. Each candidate is given 1 mark for question No. 8.

14. A man has three bags. There are 4 marbles of different colours in first bag, 5 marbles of different colours in second bag and 3 marbles of different colours in third bag. If two colours are such which are only in first and second bag and one colour is such which is in all three bags, how many different colours are in all the three bags?
a. 6 b. 7 c. 8 d. 9

15. The Managing Director reached the conference hall 10 minutes before half past twelve and he reached 20 minutes before the Chairman. If the Chairman was already late by half an hour than the schedule time of interview, what was the schedule time of interview?
a. 12:50 b. 12:10 c. 12:30 d. 12:00

Direction for question No. 16 to 20: Refer the table below and find out the correct answer from the given alternatives.

| Company | Midwest Iron | SPS Steel | Tara Metallica |
|--------------------------------|--------------|-----------|----------------|
| Coke Consumption (tonnes) | 0.76 | 0.87 | 0.91 |
| Price per tonne (Rs.) | 2857 | 3690 | 3945 |
| Ore Consumption (tonnes) | 1.61 | 1.70 | 1.68 |
| Price per tonne (Rs.) | 700 | 360 | 495 |
| Others (tonnes) | 0.32 | 1.33 | 0.33 |
| Price per tonne (Rs.) | 530 | 375 | 780 |
| Total cost of production (Rs.) | 3486 | 3955 | 4700 |
| Price realisation (Rs.) | 6568 | 6464 | 7325 |

16. By how much is the value of coke consumed by Midwest Iron lower than that of SPS Steel?
a. 32% b. 29% c. 25% d. 27%
17. What is the value of ore consumption for Tara Metallica?
a. 815.75 b. 831.60 c. 873.40 d. 913.60
18. By how much is the price paid for others by Tara Metallica higher than that by Midwest Iron?
a. 51.8% b. 53% c. 49% d. 55%
19. What percentage of the total cost of production for SPS Steel is on account of ore consumption?
a. 15.5% b. 17% c. 12% d. 20%
20. What is the cost of production as a % of price realization for Tara Metallica?
a. 52% b. 58% c. 64% d. 70%

Direction for question No. 21 to 30: Find out the correct answer from the given alternatives.

21. Which of the following banks has tied up with online portal "magicbricks.com" to conduct joint marketing activities?
a. Bank of Baroda b. HDFC Bank
c. State Bank of India d. ICICI Bank
22. When National Maritime Day is observed every year?
a. 5th April b. 7th April
c. 5th August d. 7th August
23. As per recently passed National Bank for Agriculture and Rural Development Bank (Amendment) Bill, 2017, the Union Govt. alone must hold at least of capital share of National Bank for Agriculture and Rural Development Bank.
a. 26% b. 49% c. 51% d. 76%

24. Which of the followings is India's first bitcoin trading application?

- a. BTrade b. VCoin Exchange
- c. BitC Exchange d. Pluto Exchange

25. Goods and Services Tax is a based tax on consumption of goods and services.

- a. origin b. destination
- c. development d. dividend

26. Which of the organizations/forums recently have ranked India at 30th position on Global Manufacturing Index?

- a. The World Trade Organisation
- b. The World Economic Forum
- c. The International Maritime Organisation
- d. The World Bank

27. Who among the followings have won World Rapid Chess Championship Title 2017?

- a. Viswanathan b. Vladimir Fedoseev
- c. Boris Spassky d. Ruslan Ponomarev

28. Which of the followings recently got Geographical Indication tag status?

- a. Madras Silk b. Makaibari Tea
- c. Banglar d. Rajasthan's
- Rosogolla Gulab Jamun

29. Who has become the first woman lawyer to be directly appointed as a judge of the Supreme Court (SC)?

- a. Roma Joseph
- b. Sudha Misra
- c. Meenakshi Arora
- d. Indu Malhotra

30. Who has been appointed as the new Chairman of Kerala Maritime Board?

- a. V J Mathew b. M.A. Asif
- c. M.P. Shibu d. Prakash Iyer

Part II-A

(Each question carries 1 mark)

31. Which of the following statements are not true in relation to employment of contract Labour in any establishment?

- i. The Hon'ble Supreme Court can abolish contract labour system in any establishment
 - ii. The Hon'ble High Court can abolish contract labour and prohibit the principal employer from engaging contract labour
 - iii. An appropriate Govt. and not the Court can prohibit the employment of contract labour as per the provisions of law
 - iv. Neither the Court nor the appropriate Govt. can abolish the contract labour in any establishment
- a. 1 and 2 b. 1, 2 and 4
 - c. 1, 2 and 3 d. All of the above

32. The minimum rate of subsistence allowance in case of suspension pending enquiry has been given under which of the following legislations?

- a. Industrial Disputes Act b. Trade Union Act
- c. Industrial Employment d. None of the above
- (Standing Orders) Act

33. After amendment in the year 2015, the maximum ceiling on wage or salary for calculation of bonus under Payment of Bonus Act, 1965 is Rs.

- a. 3500/- b. 7000/- c. 7500/- d. 10000/-

34. Which of the following is true as per provisions of the Industrial Disputes Act?

An employer need not issue any 'Notice of Change' in respect of 4th schedule of the Act.

- a. Where the change is affected in pursuance of any settlement
- b. In respect of any matter specified in the schedule affecting workmen

- c. In respect of conditions of service applicable to any workmen
d. None of the above
35. What is the period of qualifying service (excluding in case of death) under Payment of Gratuity Act to be eligible for gratuity?
a. 10 years b. 5 years
c. 1 year d. 3 years
36. Which of the following is not a statutory welfare facility under the Dock Workers (Safety, Health & Welfare) Regulations, 1990?
a. Washing facility b. canteen
c. transport d. First-Aid box
37. How many Welfare Officer(s) to be appointed in a port where 400 workers are working?
a. 0 b. 1
c. 2 d. 3
38. A Court has power to
a. Modify the award of an arbitrator with his consent
b. Modify the award subject to the consent of the parties
c. Nullify the arbitration agreement
d. None of the above
39. is the process of setting disputes compulsorily through the intervention of third party appointed by the Government.
a. Arbitration b. Negotiation
c. Adjudication d. None of the above
40. At least how many workers would be required to form a trade union and get it registered?
a. 5 b. 6 c. 7 d. 8
41. The main function of is to resolve the differences existing between the management and the workers.
- a. Collective Bargaining b. Cooperation
c. Agitation d. All of the above
42. As per Industrial Disputes Act, 1947, if any person employed in public utility service go on strike within days of giving notice of strike, the said strike is illegal.
a. 7 b. 14 c. 21 d. 30
43. Manpower planning involves all of the followings except;
a. Organizing and training of staff
b. Estimating future personnel requirements
c. Monitoring the quality of the product
d. Preparing and maintaining personnel records
44. Which of the followings may be termed as scientific and systematic effort to modify the characteristics of an employee's job?
a. Job redesign
b. Job enlargement
c. Job enrichment
d. Job description
45. Which of the following methods cannot be used to measure the performance of an employee?
a. Interview
b. Balanced Score Card
c. Rank method
d. 360° Performance Appraisal
46. According to Douglas McGregor which of the followings is not a component of Discipline?
a. Previous warning b. Consistency
c. Immediacy d. Personal
47. Which of the following sources of recruitment is costlier?
a. Internal b. External
c. Cost is same d. None of the above for a and b

48. The three important components in aligning business strategy with HR strategy are:

- a. Business Strategy, Human Resource Practices, Organisational Capabilities
- b. Marketing Strategy, Human Resource Practices, Organisational Capabilities
- c. Business Strategy, Human Resource Practices, Organisational structure
- d. Marketing Strategy, Human Resource Practices, Organisational structure

49. 360° feedback enhances the quality of decisions.

- a. Human Resource Management
- b. Management
- c. Human Resource Development
- d. All of the above

50. An experienced person offering guidance and support to a junior employee so that the later learns and advances in the organization is called;

- a. mentoring
- b. counselling
- c. teaching
- d. job instruction training

Part II-B

(Each question carries 2 marks)

51. APAR means;

- a. Annual Performance Appraisal Report
- b. Annual Property Acquisition Record
- c. Annual Productivity Appraisal Report
- d. Assessment of Performance and Results

52. No person who professes a religion other than the Hindu, Sikh or Buddhist religion shall be deemed to be –

- a. A member of the SC
- b. A member of ST

- c. member of OBC
- d. All the above

53. Which of the following statements is not correct?

- a. Reservation does not apply to single post cadres
- b. Total reservation is to be kept within 50% of the cadre
- c. Rosters are meant for determining the seniority as well
- d. There is no reservation for OBC in promotion

54. "Person with disability" means a person with long term –

- a. Physical and mental disability
- b. Physical, visual and hearing impairment
- c. Physical, mental, intellectual disability
- d. Physical, mental, intellectual or sensory impairment

55. Which of the following statements is not correct?

- a. Every Government servant will retire from service on the afternoon of the last day of the month in which he attains the age of sixty years
- b. A Government servant whose date of birth is the first of a month shall retire from service on the afternoon of the last day of the preceding month on attaining the age of sixty years
- c. A request for alteration of date of birth should be made within five years of entry into Government service
- d. A Government servant enjoys the right to request for alteration of date of birth any time latest before five years of retirement from Government service

56. Earned Leave can be ordinarily combined with the following.

- a. Casual Leave, half pay leave, maternity leave

- b. Study leave, casual Leave, maternity leave
 - c. Study Leave, half pay leave, maternity leave
 - d. Casual Leave, hospital leave, paternity leave
57. Choose the correct statement –
- a. 'Extraordinary leave' is not granted when other leave is admissible
 - b. 'Leave not due' may be granted on medical ground
 - c. A Government servant is not permitted to encash earned leave at the time of availing of Leave Travel Concession
 - d. 'Earned Leave' is earned by duty and hence can be claimed as of right.
58. What will be the normal zone of consideration for filling up of 5 vacancies by selection in promotion?
- a. 8 b. 10 c. 14 d. 15
59. Under Leave Regulations, leave does not include –
- a. commuted leave
 - b. extra ordinary leave
 - c. leave not due
 - d. none of the above
60. "Industrial dispute" means any dispute or difference, connected with the employment or non-employment or the terms of employment or with the conditions of labour or any person, between –
- a. employers and employers
 - b. employers and workmen
 - c. workmen and workmen
 - d. All the above
61. In terms of Dock Workers (Safety, Health and Welfare) Rules, 1990; who is the competent authority to issue show cause notice, prohibition order and prosecute the port authority, firm or company for non-compliance of

the provisions under the Act and the regulations.

- a. Inspector
 - b. District Welfare Officer
 - c. Director (Safety)
 - d. Jt. Controller
62. ISPS Code means;
- a. Indian Standard Port Safety Code
 - b. The International Ship and Port Facility Security Code
 - c. International Safety and Port Security Code
 - d. Indian Safety and Port Security Code
63. In every dock, the distance of the nearest first-aid box from any working place should not be more than –
- a. 200 meters b. 500 meters
 - c. 600 meters d. 750 meters
64. Dangerous goods which may cause injury while handling in ports have been classified internationally into following Classes –
- a. four b. five
 - c. seven d. nine
65. All lifting appliances used in port operations need to be thoroughly examined by a competent person once at least in every –
- a. 6 months b. 12 months
 - c. 24 months d. 36 months
66. Suspension of a government servant with simultaneous reduction in pay and withdrawal of some rights and privileges is considered as -
- a. Major penalty b. Minor penalty
 - c. Censor d. Not a penalty
67. Subsistence allowance may be increased or reduced by up to -
- a. 10% of the allowance during the first 3 months
 - b. 25% of the allowance during the first 3 months
 - c. 50% of the allowance during the first 3 months
 - d. 75% of the allowance during the first 3 months

68. Which of the following statements is not true?

- a. Dismissal from service disqualifies from future employment under the Govt.
- b. Removal from service disqualifies from future employment under the Govt.
- c. Minimum penalty consequent to a disciplinary proceedings is 'Censure'.
- d. Family members of a suspended employee are eligible for LTC facility

69. The authority competent to impose on a Government servant any of the penalties is called –

- a. Disciplinary authority
- b. Appointing Authority
- c. Enquiring Authority
- d. Head of the Department

70. The Cardinal Characteristics of Principles of Natural Justice are :

- a. Adequate opportunity to be heard
- b. To be interrogated
- c. Solemn Judgment
- d. All the above

71. CCA Regulations refer to-

- a. Cost, Control and Administrative Regulations
- b. Central Civil Service and Appeal Regulations
- c. Classification, Control and Appeal Regulations
- d. Child Care Allowance Regulations

72. An employee shall be deemed to have been suspended with effect from the date of detention if he/she is detained in custody, whether on a criminal charge or otherwise, for a period exceeding –

- a. 24hrs. b. 36hrs. c. 48hrs. d. 60hrs.

73. The appointment of the Chief Vigilance Commissioner is made by the President on the

recommendations of a Committee consisting of -

- a. the Prime Minister, the Minister of Home Affairs and the Leader of the Opposition in the Lok Sabha
- b. The Prime Minister, the Minister of Law & Justice and the Chief Justice of India
- c. The Prime Minister, the Minister of Finance and the Minister of Law & Justice
- d. None of the above

74. Fundamental Rules deal with "Dismissal, Removal and Suspension" in –

- a. FR 52-54 b. FR 105-108
- c. FR 112-114 d. FR 124-126

75. Choose the correct statement –

- a. The standard of proof required in a disciplinary inquiry is that of 'preponderance of probability'
- b. The standard of proof required in a disciplinary inquiry is – 'proof beyond reasonable doubt'
- c. Nature of penalties are broadly grouped as "Minor Penalty", "Major penalty" and "Severe penalty"
- d. None of the above

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End
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Booklet Serial No. SATM: 08

Name (in Block letters)

Roll No.:

Candidate's Signature:

Date:

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SR. ASSISTANT TRAFIC MANAGER

PART I

(Each question carries 1 mark)

1. Two buses start from a bus terminal with a speed of 20 km/h at interval of 10 minutes. What is the speed of a man coming from the opposite direction towards the bus terminal if he meets the buses at interval of 8 minutes?
a. 3 km/h b. 4 km/h
c. 5 km/h d. 7km/h
2. A can complete a piece of work in 18 days, B in 20 days and C in 30 days, B and C together start the work and forced to leave after 2 days. The time taken by A alone to complete the remaining work is:
a. 10 Days b. 12 days
c. 15 days d. 16 days
3. The difference between simple and compound interests compounded annually on a certain sum of money for 2 years at 4% per annum is Re. 1. The sum (in Rs.) is:
a. 625 b. 630 c. 640 d. 650
4. Three partners A, B, C start a business. B's Capital is four times C's capital and twice A's capital is equal to thrice B's capital. If the total profit is Rs 16500 at the end of a year, Find out B's share in it.
a. Rs. 4000 b. Rs. 5000
c. Rs. 6000 d. Rs. 7000
5. A father said to his son, "I was as old as you are at the present at the time of your birth". If the father's age is 38 years now, the son's age five years back was:
a. 14 years b. 19 years
c. 33 years d. 38 years
6. A shopkeeper earns a profit of 12% on selling a book at 10% discount on the printed price. The ratio of the cost price and the printed price of the book is:
a. 45:56 b. 45:51 c. 47:56 d. 47:51
7. The number of students in 3 classes is in the ratio 2:3:4. If 12 students are increased in each class this ratio changes to 8:11:14. The total number of students in the three classes in the beginning was
a. 162 b. 108 c. 96 d. 54
8. The National Institute of Mental Health and Neuro Sciences (NIMHANS) is located in which city?
a. New Delhi b. Kochi
c. Kolkata d. Bengaluru
9. Who has been named Globe Soccer's Best Player for the year 2017?
a. Radamel Falcao b. Lionel Messi
c. Franck Ribéry d. Cristiano Ronaldo
10. The Nongkhylliem Wildlife Sanctuary (NWS) is located in which state?
a. Arunachal Pradesh b. Meghalaya
c. Sikkim d. Manipur
11. Who has won the 2017 World Rapid Chess Championship in Riyadh?
a. Magnus Carlsen b. Peter Leko
c. Vladimir Fedoseev d. Viswanathan Anand
12. The National Rice Research Institute (NRRI) is located in which state?
a. Kerala b. West Bengal
c. Odisha d. Andhra Pradesh

13. For seeing objects at the surface of water from a submarine under water, the instrument used is
- periscope
 - Telescope
 - Kaleidoscope
 - Spectroscope

Directions (14-18): Answer the questions from the data given in the graph below.

The bar graph given below shows the foreign exchange reserves of country X (in million US \$) from 2001 - 2002 to 2008 - 2009.



14. The ratio of the number of years, in which the foreign exchange reserves are above the average reserves, to those in which the reserves are below the average reserves is?
- 2:6
 - 3:4
 - 3:5
 - 4:4
15. The foreign exchange reserves in 2007-08 was how many times that in 2004-05?
- 0.7
 - 1.2
 - 1.4
 - 1.5
16. For which year, the percent increase of foreign exchange reserves over the previous year, is the highest?
- 2002-03
 - 2003-04
 - 2004-05
 - 2006-07
17. The foreign exchange reserves in 2006-07 were approximately what percent of the average foreign exchange reserves over the period under review?

- 95%
- 110%
- 115%
- 125%

18. What was the percentage increase in the foreign exchange reserves in 2007-2008 over 2003-04?

- 50%
- 100%
- 75%
- 25%

Directions (Q. No. 19 – 21): What will come at the place of question mark?

19. 8, 28, 116, 584, ?
- 1752
 - 3504
 - 3508
 - 3502

20. 6, 24, 60, 120, 210, ?
- 336
 - 366
 - 330
 - 660

21. 6, 11, 31, 121, 601, ?
- 3600
 - 3621
 - 3601
 - 3611

22. Arrange the words given below in a meaningful sequence.

- Word
- Paragraph
- Sentence
- Letters
- Phrase

- 4, 1, 5, 2, 3
- 4, 1, 3, 5, 2
- 4, 2, 5, 1, 3
- 4, 1, 5, 3, 2

23. Arrange the words given below in a meaningful sequence.

- Presentation
- Recommendation
- Arrival
- Discussion
- Introduction

- 3, 5, 1, 4, 2
- 3, 5, 4, 2, 1
- 5, 3, 1, 2, 4
- 5, 3, 4, 1, 2

24. I walk 30 metres in North-West direction from my house and then 30 metres in South-west direction. After this I walk 30 metres in South-East direction. Now, I turn to my house, in what direction am I going?

- North-East
- North-West
- South-East
- South-West

Directions (Q. Nos. 25-26): Choose the word similar in meaning to the given word:

25. HAGGLE

- a. Postpone
- b. Accept
- c. Bargain
- d. Reject

26. FORTITUDE

- a. Similarity
- b. Courage
- c. Protection
- d. Safety

Directions (Q. Nos. 27-28): Choose the word opposite in meaning to the given word:

27. BAROQUE

- a. Florid
- b. Abandon
- c. Empty
- d. Plain

28. RABID

- a. Furious
- b. Wild
- c. Calm
- d. Decent

Directions (Q. Nos. 29-30): In questions, sentences are given with blanks to be filled in with appropriate word(s). Four alternatives are suggested for each question. For each question choose the correct answer out of the given alternatives.

29. The Chairman is ill and we'll have to the meeting for a few days.

- a. put on
- b. put of
- c. put away
- d. put off

30. He is very good making stories.

- a. in
- b. about
- c. at
- d. for

PART II-A

(Each question carries 1 mark)

31. Find the odd item out

- a. F.O.B
- b. F.A.S
- c. C.O.D
- d. C.I.F

32. Find the odd item out

- a. COGSA
- b. MTGA
- c. SOLAS
- d. IDA

Directions (Q. Nos. 33-40): Select the right answer for the following questions

33. The trend of traffic growth rate in Indian Ports over last five years is

- a. Major ports have registered lower growth than non major ports
- b. Major ports have stagnated while non major ports have registered positive growth
- c. Major ports have shown negative growth while non major ports have registered positive growth
- d. Both Major and non major ports have registered negative trend

34. Highest share of freight revenue on Indian railway is generated by

- a. Petroleum and lubricants
- b. Food grains
- c. Containers
- d. Coal

35. Amongst the following which is not relevant in determining the hook shift output of a ship at a berth

- a. Hook cycle time
- b. Average weight of the load per hook lift
- c. S.W.L of the crane engaged
- d. Hook idle time

36. High set-up cost and comparatively low operating and maintenance cost is the feature of

- a. Rail transport of material
- b. Road transport of goods
- c. Air transport of cargo
- d. Pipe line transfer of liquid bulk cargo

37. MTD is a document introduced for

- a. Granting a receipt by the Master of the ship loading export consignment
- b. Granting a single receipt by the carrier covering more than one mode of transport of containerized cargo.
- c. Granting a receipt by the custodians of exim cargo to the customs.
- d. For obtaining customs permission to remove cargo to a customs bonded warehouse located outside the port limit.

38. Which one of the following documents is not relevant for clearance of import cargo from the customs port
- B/E
 - Carriers delivery order
 - Letter of credit
 - Commercial Invoice
39. The Procedure for examination, maintenance and interchange of wagons between the zonal railways are prescribed in
- Inter zonal terminal agreements of Indian Railways
 - Indian Railways conference rules
 - Railways Commercial Manual
 - Red tariff of Indian Railways.
40. The abbreviated name of the software used by the Indian Railways for Organizing, tracking and controlling wagon movements is
- IRWS
 - ROMS
 - FRMS
 - FOIS

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PART II-B

(Each question carries 2 marks)

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Directions (Q. Nos. 41-50): Select the right answer for the following questions

41. Sagarmala Project is aimed at
- Integrating all major ports with dedicated freight corridors
 - Establishing integrated coastal shipping services linking the major ports
 - Establishing a few mega modern ports and also to modernize the existing ports to ensure port-led development in the integrated special economic zones of the country
 - Establishing new modern ports along the coast line to promote exim traffic and also to augment defense naval capacity of the country.
42. Setusamudram project was conceived for
- creation of two channels , one across the Adam's bridge and the other across the Palk strait shallows in order to reduce the travel time of ships plying

- between east and west coast of our country.
- deepening the navigation channel between Vallarpadam terminal and mainland part of Cochin port to permit high draft container ships movement of international sea route.
 - construction of a bridge across gulf of Cambay in order to reduce road and rail distance between the cities in the state of Gujarat which are falling on two banks of the gulf as well as western part of the state with southern states of the country.
 - extensive dredging and developing inland waterways transportation infrastructures in a big way and to integrate those with the major gateway ports of our country.
43. Land bridging logistics is the practice of
- moving container trains through the dedicated freight corridor between different logistics centres in the hinterland and the gateway port .
 - moving cargo through an alternative land based routes in place of established liner routes.
 - moving containers offloaded at ports on one coast , by road or rail to other coast, across the land mass for onward journey on ships.
 - connecting island ports of a country by way of constructing bridges and moving the cargo to and fro the main land thereby.
44. EEE class ships carry
- P.O.L traffic
 - Liquefied gases
 - Project cargo and heavy lifts
 - containers
45. In case of container traffic presently the topmost trade route in terms of volume is
- Transpacific trade route between Asia and North America
 - Intra-Asia trade route
 - Asia – Europe trade route
 - North-South trade route.

46. Periodic health check up of its employees working in docks and harbours is a requirement under:

- a. M.P.T Act
- b. IMDG Code
- c. I.D Act
- d. Dock workers' SHW Regulations

47. In case of sale of imported goods, not cleared by the consignee, by the Major port authority, which cost/charge is to be met first from the proceeds of the sale

- a. cost of sale
- b. port authority's dues including cargo demurrage up to four months
- c. penalty or fines due to central govt.
- d. carrier's due freight and charges for which notice of lien was served

48. A conventional forklift can lift cargo safely upto its rated capacity

- a. When the centre of gravity of the load falls between the heel and the load centre of the forks
- b. When the centre of gravity of the load falls farther from the heels of the forks compared to load centre of the forks
- c. when vertical line passing through the C.G of the load falls outside the limits of the fork
- d. When the vertical line passing through the centre of gravity of the load becomes tangent to the margin of the fork

49. Mark the correct statement from the following:

Bulk of the liner trade between U.K and China and Japan passes through the route running through

- a. Mediterranean, Suez canal, Malacca strait and China sea
- b. Atlantic, Panama canal and Pacific
- c. Atlantic and Indian ocean via Cape
- d. North sea , Bering strait and Pacific

50. Mark the incorrect statement

Liability for loss or damage to the landed import cargo in the premises of a major port lies with it:

- a. Till the date of submission of Out Turn Report in respect of the ship from which the cargo had landed
- b. For the days as provided in the regulation of the port concerned framed for this purpose under M.P.T Act.
- c. Does not lie at all with the port in case no receipt is granted for the cargo by its employees or agents, following the landing of the same cargo from the ship.
- d. Does not lie in respect of the cargo lying inside a loaded container awaiting destuffing inside the port.

PART II-C

(Each question carries 4 marks)

51. The average cargo holding of a transit shed is 5000 m.t for a particular commodity. What should be the maximum limit of dwell time of said commodity that can be allowed in the shed in order to achieve its annual (360 days) throughput capacity of 1,80,000 m.t?

- a. 12 days
- b. 10 days
- c. 15 days
- d. 7 days

52. For calculation of berth occupancy in a section named EQ of port X, following data for three berths for seven days up to 00.01 hrs of 08.1. 2018 were consulted. Names of the vessels which remained at the berths and their movements to and from the berth are indicated

| Date | Berth EQ-1 | Berth EQ-2 | Berth eq-3 |
|-----------|-----------------------------|--|--|
| 01.1.2018 | Indian Fortune | Sagarmala | Vacant |
| 02.1.2018 | Indian Fortune | Sagarmala left at 10.00 hrs. I.Tribune arrived at 16.00 hrs | Indian Adventure arrived at 09.00 hrs. |
| 03.1.2018 | I.fortune left at 17.00 hrs | I.Tribune | I.Adventure |

| | | | |
|-----------|-----------------------------|-------------------------------|--|
| 04.1.2018 | I.Glory arrived at 06.00hrs | I.Tribune left at 23.00 hrs | I.Adventure left at 11.00hrs and V.Prava arrived at 16.00hrs |
| 05.1.2018 | Indian Glory | Vacant | V.Akash |
| 06.1.2018 | I.Glory left at 21.00hrs | V.Pankaj arrived at 07.00 hrs | V.Akash |
| 07.1.2018 | Vacant | V.Pankaj | V.Akash left at 06.00hrs |

Find out the correct berth occupancy level for the section EQ from the following figures:

- a. 76.2% b. 73.41% c. 66.66% d. 77.38%

Directions (Q. No.53-56): Read out the below stated information and answer the questions.

For the purpose of importing 20,000 m.t of thermal coal through port Monidip the importer X had chartered a ship. After careful gathering of relevant data he could assess that

- The vessel would discharge his cargo at the working berth @ 2000 m.t per day. However, the discharge rate would reach at the level of 2500 m.t per day if a pay loader can be engaged on shore to work simultaneously. For that pay loader operator will charge him Rs 1000/- per day.
- The importer will be required to finish cargo work within 10 days. In case he can finish the vessel earlier, he will earn a dispatch from the vessel owner @ Rs5000/- per day or part of a day but for late finishing he will have to pay vessel demurrage @ Rs 10,000/-per day or part of a day.
- His transport contractor will be able to clear the cargo from the port @1000m.t/day and will charge him Rs5/- per m.t.for the service. He can however increase clearance of cargo per day by 500m.t, for which he will charge Rs2/- per ton extra on this additional volume.

- Port authority will charge him cargo demurrage@ Rs2per m.t per day or part of a day, after allowing three clear demurrage free days following the day vessel completes discharge of cargo at the berth. Demurrage is payable on the quantity of the cargo lying undelivered on the close of the previous day's clearance.

From the above he found that he has four options to work the vessel and clear the cargo fully from the port. They are:

Option - 1

Allow the vessel to discharge cargo normally, without engaging additional pay loader and also clear the cargo from the port at normal rate and without raising delivery level paying extra amount

Option - 2

Allow the vessel to discharge cargo engaging additional pay loader but clear the cargo at normal rate, without raising delivery level paying extra amount

Option - 3

Allow the vessel to discharge cargo engaging additional pay loader and clear the cargo raising delivery level paying extra amount.

Option - 4

Allow the vessel to discharge cargo normally, without engaging additional pay loader and clear the cargo from the port raising delivery level paying extra amount

Find out the total cost involvement (excluding wharfage and other vessel related costs) in respect of each of the options from the following figures given against each option.

- Option-1 - Total cost is Rs.
a. 1,56,000/- b. 1,30,500/-
c. 98,000/- d. 1,48,000/-
- Option - 2 - Total cost is Rs.
a. 1,30,000/- b. 1,88,000/-
c. 1,48,000/- d. 1,20,000/-

55. Option-3 - Total cost is Rs.
 a. 98,000/- b. 1,40,000/-
 c. 1,45,500/- d. 1,70,000/-
56. Option-4 - Total cost is Rs.
 a. 1,40,000/- b. 98,000/-
 c. 1,56,000/- d. 1,36,000/-

Directions (Q. No.57-59): Read out the below stated information and answer the questions.

A ship M.V Jaladhi arrived at port Monidip at 14.00 hr on 01.01.2018 with 11,700/- m.t cargo to discharge fully. The vessel was taken to the working berth at 18.00 hr on 02.01.2018 where she started work at 21.00 hr on the same day. Vessel completed work at 09.00 hr on 05.01.2018 and sailed out from the berth at 11.00 hr on the same day. Port pilot due to tug problem en route could take the vessel out of port limit at 18.00hrs.

From the above information indicate the correct values in respect of below mentioned port productivity indicators.

57. M.T per ship working hour at berth
 a. 180 m.t b. 195 m.t
 c. 177 m.t d. 225m.t
58. M.T per ship hour at berth
 a. 225 m.t b. 180 m.t
 c. 195 m.t d. 175 m.t
59. M.T per ship hour at port
 a. 180m.t b. 177 m.t
 c. 195 m.t d. 117 m.t
60. The ship Indian Pride visited port X to discharge 50,000 m.t of thermal coal. The vessel declared her arrival time at 14.30 hr on 08.01.2018 after anchoring at earmarked point which is at 10 nautical miles from the berth. She was brought to the working berth EQ-1 at 18.30 hr on 10.1.2018. The vessel had distribution of cargo on board as follows.

Hatch - 1 - 10,000 m.t,

Hatch -2 - 7,000 m.t,
 Hatch - 3 - NIL,
 Hatch-4- 13,000 m.t,
 Hatch - 5 - 20,000 m.t.

The vessel had been planned to work with two shore based cranes, K-1 and K-2 and cargo would be discharged by grabs attached to the cranes each of which can transfer average load weighing 20 m.t in each lift all through. The average hook cycle time for both the crane is 30 seconds. But the same goes up to 40 seconds when both the cranes are made to work together in the same hatch. Crane requires to travel 10 minutes on shore in order to reach next nearest hatch from the preceding one.

You are required to choose appropriate plan of work for the cranes to work on the ship and complete the work at the earliest possible time from the following options:

- i) Engage one crane (K1) to complete work serially from Hatch- 1 to Hatch-2 and so on moving towards the aft of the ship. At the same time engage crane (K2) at Hatch-5 to complete the hatch and then move towards Hatch-4 and so on towards the forehead of the ship.
- ii) Engage both the cranes simultaneously at Hatch-4. After finishing the work together there K-1 would move towards the forehead of the ship and complete the works in the Hatches falling on its way, while K2 will go to Hatch-5 to finish the work.
- iii) Engage both the cranes simultaneously at Hatch-4 and after some time, before finishing the work there, K-1 would move towards the forehead of the ship and complete the works in the Hatches falling on its way, while K2 will go to Hatch-5 after finishing the balance work at Hatch-4.

- iv) Engage the crane K2 at Hatch-5 and K1 simultaneously at Hatch-4. After some time, before finishing the work there, K-1 would move towards the forehead of the ship and complete the works in the Hatches falling on its way, while K2, after finishing the work at Hatch-5 will go to Hatch-4 to complete the balance works thereat left over by K1.

Your option of work to finish the ships will be

- | | |
|---------------|--------------|
| a. Plan - i | b. Plan - ii |
| c. Plan - iii | d. Plan - iv |

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END

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