

**MINISTRY OF SURFACE TRANSPORT**  
New Delhi, the 28<sup>th</sup> June, 1988

**CORRIGENDA**  
(Merchant Shipping)

G.S.R. 744(e). In the Merchant Shipping (Examination of Masters and Mates) Rules, 1985 published in the notification of the Government of India in the former Ministry of Shipping & Transport (Shipping Wing) [G.S.R. 712\(E\), dated the 3<sup>rd</sup> September, 1985](#) at pages 63 to 132 of the Gazette of India, Extraordinary, Part II, Section 3, Sub-section (i), dated 3<sup>rd</sup> September, 1985 :-

at page 63--

- (1) in the preamble, line 5, for "1934" read "1954"
- (2) in rule 1, sub-rule (3)--
  - (a) line 2, for "7", read "(7)"
  - (b) line 5, for "be" read "by"
  - (c) line 6, for "the" read "and", where it occurs for the second time;
- (3) in rule 2--
  - (a) line 1, for "Definiations", read "Definitions";
  - (b) clause (e), line 1, for "centrificate", read "certificate";
  - (c) clause (j), line 5, for "of" read "or"
  - (d) clause (1), sub-clause (ii)--
    - (i) line 6, for "routing" read "routine"
    - (ii) line 11, for "deck" read "dock"
- (4) in rule 3, clause (a)(i), line 1, for "master" read "Master"

at page 64--

- (5) under the heading "CHAPTER II, add "PART I"
- (6) in rule 4--
  - (a) sub-rule (3), line 2, for "Part" read "Parts";
  - (b) sub-rule (6), line 1, for "helds" read "holds";
  - (c) sub-rule (6), line 7, for "Navigations" read "Navigation";
- (7) in rule 5, clause (b), line 1, for "helds" read "holds";

at page 65--

- (8) in rule 6--
  - (a) sub-rule (2) line 1, for "candidates" read "candidate";
  - (b) sub-rule (3), clause (b), line 2, for "holding" read "holder";
- (9) in rule 8, sub-rule (5)--
  - (a) line 3, for "dock" read "deck"
  - (b) line 4, for "or" read "of"
  - (c) clause (b), line 3, and "on" between "keeping" and "Navigating";
  - (d) clause (b), line 4, for "certificate" read "certificated"

at page 66--

- (10) in rule 9, sub-rule (2), line 2, leave space between "trade" and "ship" ;
- (11) in rule 10--
  - (a) lines 1 and 3, leave space between "trade" and "ship"
  - (b) sub-rule 3(b), for "certificate" read "or as mate";
  - (c) sub-rule 4(a), line 1, delete "as" after "Certificate"
  - (d) sub-rule 4(c), line 4, for "operator" read "operators's" ;
  - (e) sub-rule 4(c), line 4, for "oerator" read "operator's";
  - (f) sub-rule 4(f), line 1, for "in" read "if"
  - (g) below sub-rule 4(f), sub-para line 3 for "certificate" read "certificates" ;

(12) in rule 12--

- (a) heading, underline the words "Additional Certificate";

at page 67--

- (b) clause (1)(c), line 3, for "precribe" read "prescribed"
- (13) under rule 13, sub-rule (3) , heading, for "Part III" read "PART II"

(14) in rule 14—line 4, for "to" read "for";

at page 68--

- (15) in rule 17, sub-rule (2), line 5, for "Merchantile" read "Mercantile" ;

(16) in rule 21.

- (a) sub-rule (1), line 5, for "Services" read "service"
- (b) Sub-rule (2), line 1, for "Certificate" read "Certificate"

at page 69--

(c) sub-rule (3)--

(i) line 2, for "Noutical" read "Nautical"

(ii) line 6, for "colleges" read "college"

(d) sub-rule (4).--

line 2 and 3, for "Certificate" read "Certificates"

(17) in rule 22.--

(a) sub-rule (1), line 2, add the word "of" between "or" and "any" ;

(b) sub-rule (2), line 1, or "remission" read "remission"

(18) in rule 22--

(a) line 1, for "Qualifying" read "Qualifying";

(b) line 2, for "Cades" read "Cadets"

(c) Sub-rule (3), line 3, or "masters" read "master"

(19) in rule 25--

(a) line 3, for "commercement" read "commencement";

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(b) sub-rule (2), line 5, for "competency" read "competency"

(c) sub-rule (3), line 6, for "render" read "renders";

(d)(i) sub-rule (5), line 2, for "reckoned" read "reckoned";

(ii) sub-rule (5), line 9, for "an" read "and"

(20) in rule 26--

(a) sub-rule 1, line 6, for "fareign" read "foreign";

(b) sub-rule 4, line 1, for "each" read "Each";

(c) sub-rule 5, line 1, for "srevied" read "served";

(21) in rule 27--

(a) sub-rule (1), item (i), for "vacants" read "yatchs";

At page 71--

(b) sub-rule (4)--

(i) line 1, for "previsions" read "provisions";

(ii) line 2, for "candiadate" read "candidate";

- (22) in rule 28--
- (a) sub-rule (1), line 6, for "Mates" read "Mate"
  - (b) sub-rule (2)--
    - (i) line 3, omit the quotation mark before "required";
    - (ii) line 5, for "master" read "Master";
    - (iii) line 6, omit the quotation mark after the "ship";
- (23) in rule 30—sub-rule (3), line 2, put a fulstop after "consideration";

(24) in rule 32--

at page 72--

- (a) line 2, for "training" read "Trading";
  - (b) line 3, for "part" read "chapter";
- (25) in rule 33, sub-rule (1)--
- (i) line 5, "foregn" read "foreign"
  - (ii) line 6 and 7, omit "of a ship" between "officer" and "respectively";
- (26) in rule 35--
- (a) line 2, for "compentency" read "competency";
  - (b) line 10, omit "of a ship" between the words "officer" and "subject";

At page 73--

- (26) in rule 41, item a, line 1, add "by" between "spent" and "Naval Cadets";
- (27) in rule 42, line 5, for "Form B" read "Form E"
- (28) in rule 43, sub-rule (2)--
- (a) line 2, for "Merchantile" read "Mecantile";
  - (b) line 6, put full stop after "examination";

At page 74--

- (29) in rule 45, sub-rule (3), (i), line 2, for "48" read "46";
- (30) in rule 46, sub-rule (1)--
- (a) Part A, Sl. No.2, for "Mathemetics" read "Mathematics";
  - (c) Part C, Sl. No.8, for "Navigation" read "Navigation";
  - (d) Sub-rule (1)(b), Sl. No.2, for "navigation" read "Navigation";

- (e) sub-rule (1)(c), Part A, Sl. No.2, add "400" and "60" in columns 2 and 3 respectively of the table;

At page 75--

- (31) in rule 51, sub-rule (2), line 8, for "form" read "from";
- (32) in rule 52, line 8, for "Rules" read "Rule";

At page 76--

- (33) in rule 59, sub-rule (1)--
  - (a) line 6, for "tables" read "table";
  - (b) in table Part 'A', Sl. No.1, print "50" clearly in column 4 of the table;
  - (c) in table, First Mate (Foreign Going), Sl. No. 3, for "Routing" read "Routeing";

At page 77--

- (f) in Master (Home Trade) Part 'A', Sl. No.2, insert "50" in column 4 of the table;
- (e) in Master (Home Trade) Part 'B', Sl. No.3 insert "2" in column 2 of the table;
- (f) in Extra Master, Part B, line 3, for "Marin" read "Marine";
- (34) in rule 60.--
  - (a) sub-rule (2)(b), for "Neutical"" and "Nautical"
  - (b) sub-rule (3), line 7, for "Principal" read "Prinicipal";
- (35) in rule 61--
  - (a) sub-rule (2)(a), line 4, omit "for" between "and" and "numericals";
  - (b) Sub-rule (3), line 5, for "topic" read "topics";

At page 78--

- (36) in rule 63, sub-rule (3), line 2, for "mean" read "means";
- (37) in rule 65--
  - (a) sub-rule (1), line 1, for "he" read "who";
  - (b) sub-rule (3), line 5, omit "as";
- (38) in rule 68--
  - (a) sub-rule (2), line 2, for "be" read "on";
  - (b) sub-rule (2)(c), for "to" read "with"

- (39) in rule 69,
  - (a) in line 16, insert "or" before "as"
  - (b) in line 17, for "officer" read "office";

At page 79--

- (40) in rule 70--
  - (a) item (e), Masters (HT), add "a" between "of" and "Home";
  - (b) sub-rule (3)--
    - (i) line 2, for "parts" read "part"
    - (ii) line 5 and 6, for "parts" read "part";
  - (c) sub-rule (d)--
    - (i) line 2, "parts" read "part"
    - (ii) line 4, for "orals" read "orals";
    - (iii) line 4, for "part" read "parts";
  - (d) sub-rule (6), line 4, for "part" read "parts";

At page 80--

- (41) in Appendix "A"
  - (a) in column 19, instead of sub-heading "ship Masters Certificate" read "Ship Masters Certificate in Medicare";
  - (b) in column 11, instead of sub-heading "Radio Telephone Operator (Restricted)" read "Radio Telephone Operator (Inland Maritime)";
  - (c) in column 1, line 3, add "Part A" after "Foreign Going Ship";
  - (d) in column 4, lines 2 and 3, for "for six months" read "or sea service of six months";
  - (e) in column 4, line 9, add "on duties" between "6 months" and "associated";
  - (f) in column , line 12, for "2nd Mate FC" read "2nd Mate FG";
  - (g) in column 3, line 19, add "of a" after "Master";
  - (h) in column 3, line 20, add "ship" after "Home Trade";
  - (i) Below the Grade Extra Master, line 4, for "permission" read "permissible";
  - (j) Below "Remission Permissible" Heading, in column 2, for "rates" read "rate";

At page 81--

- (k) in column 11, instead of sub-heading "Rado meelephone (Inland Maritime)" read "Radio telephone Operator (Inland Maritime)";
- (l) in column 1, line 1, and "Navigational" before "Watch-keeping";
- (m) in column 3, line 6-8, for "Second Mate Foreign Going" read "Navigational Watch keeping Officer";
- (n) in column 4, line 25, add "Navigational" between "or" and "Watchkeeping Officer";
- (o) in column 4, line 26, add "and" after "officer";
- (p) in para below Grade "Master of Home Trade Ship" line 2, "(----)" may be added between "ship" and "for";

At page 82--

(42) in Appendix "B"--

- (a) line 2, for "Radar Observer" read "Radar Observer's";
- (b) in Theory (i), the radar set, line 4, for "pulsos" read "pulses"
- (c) in line 7, omit "of"
- (d) in line 10, for "aoria" read "aerial";
- (e) in last line, for "Matine" read "Marine";
- (f) in theory (ii), The radar display, line, 4, omit "of";
- (g) in theory (iii), Effects of Siting etc., line 7, for "apares" read "spares";
- (h) in para below (iv)(h), line 4, for "targets" read "targets";
- (i) in para below (iv)(h), line 6, for "recons" read "racons"
- (j) in para below (iv)(h), line 7, for "remarks" read "remarks";
- (k) in para below (iv)(h), line 10, for "beanwidth" read "beamwidth";

At page 83

(43) in Appendix "B"--

- (a) v. Factors influencing appreciation, sub-clause (h), line 3, insert "/" between "rate" and "accuracy";
- (b) below sub-clause (h), line 1, omit the comma between "frequent" and "regular";
- (c) in vii(b), line 1, for "distances" read "distance";

- (d) in vii(b), line 2 add, "comma" between "corssing and "meeting";
- (e) vii)(e) below (iii), line 3 for "photographis" read "photographic";
- (f) in (vii)(c) below (iii), line 6, for "conservational" read "observational";

**At page 84-**

- (44) In appendix 'B', item 3, Practical (iii) line 2, for "boarings" read "bearings";
- (45) In appendix "C"--
  - (a) Sl. No.s6 for "Drowing" read "Drowning";
  - (b) under heading "practical demostration-----";
  - Sl. No.5, line 1, for "Application" read "Application";
- (46) In appendix "D", 1. introduction--
  - (a) line 1, for "aboard" read "aboard";
  - (b) line 4, for "frayers" read "fryers";
  - (c) line 5, for "rage" read "rags"
  - (d) line 8, for "examples read "examples;
- (47) In appendix "D"; 3. fire Fighting—for "CO2" read "CO2";

**At page 85--**

- (48) In appendix "D", 9. Organised fire prevention", line 1, for "atchmen" read "watchmen";
- (49) In appendix "F",--
  - (a) para 1(iv), Plan of work, line 12, add "as possible" between "soon" and "on";
  - (b) para 1(iv), plan of work, line 16, for "own ships" read "own ship"

**At page 86-**

- (50) In appendix "F",--
  - (a) para 1(v), line 4, and "and" between "courts" and "the effects";
  - (b) in para 2, line 4, for "have" read "has";
  - (c) in para 2, line 26, for "radily" read "readily";

**At page 87--**

- (51) In appendix "F",--
  - (a) 3, Discussion, para 4, line 4, for "simulater" read "simulator";



- (b) para 5, line 2, for "illustrate" read "illustrated";
- (52) In appendix "F" Topic No. line 1, for "Trepical" read "Tropical";
- (53) In appendix "F", Topic 9, "Practical Demonstration"--
  - (a) Sl. No.1., line 2, for "of" read "and" between "method" and "use";
  - (b) Sl. No.5--
    - (i) line 1, for "as phycia" read "asyphyxia"
    - (ii) line 2, add "arrest" after "cardiac"
  - (c) in Sl. No.7, line 4, for "spongine" read "spoinging";
- (54) In appendix "G", Heading, for "SIGHT RESTS" read "SIGHT TESTS";

At page 88--

- (55) In appendix "G"--
  - (a) Topic 4, -- Method of testing--
    - (i) line 2, add "be" between "shall" and "properly";
    - (ii) item (a), line 3, for "In" read "in"
      - (iii) item (c), line s5, for "the letter test and all mistakes, if any" read "to the Chief Examiner who shall decide";
  - (c) In PART II--
    - (i) topie 7(3), line 11, for "this" read "his";
    - (ii) topic 8(2), line 1, add "or small" between "large" and "aperture"

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- (iii) topics 8(3), line 3, for "this" read "his"
- (d) in PART III-
  - (i) topic 11(2), line 2, omit "a";
  - (ii) topic 12, line 3, for "on" read "or"
    - (iii) topic 14(1), line 5, add "the" between the words "attend" and examination";
  - (iv) topic 15(1), line 11, for "in" read "on";
  - (v) topic 15(2), line 5, for "to" read "of";
- (56) in Appendix "H"--
 

below FORM I and :FORM J"—"Form of Sight Test Certificate";

At page 91--

(57) in Form-A, item E(17),--Declaration to be made by the candidate.

(a) line 2, for "papers" read "papers";

(b) line 2, for "ture" read "true";

(c) line 4, for "wholse" read "whole";

At page 92--

(58) In F(18) Request for allotment of seat for examination—in the table under the heading "Examination parts" for sub-headings "CB" read "C" and for "DD" read "D";

At page 93—

(59) in H (21) Certificate of Examiner--

(a) item (b), line 2, for "he" read "He" after Full Stop;

(b) item (c), line 2, omit "Form Exn.L";

(c) line 4, for "Comliance" read "Compliance";

At page 94--

(60) in Part II of the "Certificate of Watchkeeping ; and the following as the last para :-

"Report on Conduct .....

Ability .....

Sobriety .....

At page 97--

(61) In C(15), item (c), line 1, for "Established" read "Estabilishment";

(62) In C(16) For Official use only, item 9, for "Radar Simulator" read "Radar Simulator"

At page 98--

(63) In E917) Declaration, line 3, for "name" read "names";

At page 99--

(64) In (22) Certificate of Examiner, item (a), line 1, for "sea" read "see";

(65) In (22) Certificate of Examiner, item 9b0, line 2, for "he" read "He" after stop;

(66) In (22), Certificate of Examiner, item (c) line 2, omit "Form Exn. L";

(67) In Form F, line 3, after "Signature of Examiner (Seal)" for 'coluy' read "colour";

(68) In Form F, Note, line 5, for "times" read "time";

(69) In letter of Authority, last line for "signature" read 'signature';

(C) I hereby certify that :-

1. The candidate has produced satisfactory testimonials proof of sea service/watch keeping service for a period of \_\_\_\_\_ years \_\_\_\_\_ months and \_\_\_\_\_ days and was accordingly admitted for the examination for the Certificate of Competency as \_\_\_\_\_

2. The result of the examination as indicated below :

3. Though the candidate has passed the examination, he has not been issued with a certificate of competency or a letter of authority for want of the following additional Certificates:

4. The candidate due to serious weakness shown is required to attend a course of instructions at an approved institute for a period of \_\_\_\_\_ months.

5. The candidate due to weakness shown in seamanship is required to serve a further period of \_\_\_\_\_ months.

Examiner of Masters & Mates Mercantile

Marine Department \_\_\_\_\_ District.

Signature of Candidate.....

\*Delete the words that are not applicable.

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(70) In FORM-G, the following may be added:-

(C)

1. Sea Service : \_\_\_\_\_ Yrs.  
\_\_\_\_\_ months \_\_\_\_\_ days.

2. Additional Certificates required:

3. Required to attend a Course of \_\_\_\_\_  
\_\_\_\_\_ months.

4. Additional sea-service of \_\_\_\_\_ months.

(71) In col. (B) of Application for issue of certified true copy, line 1, for "of" read "or" between "competency" and "letter";

(72) In col. (D), line 1, for "section A,B, C and" read "sections A,B and C"

(73) In Col (D), line 2, and "and belief" after "knowledge"

At page 102--

(74) In C. Examiner's Certificate, in line 3, for "were" read "was"

(75) In sight test Certificate, line before Examiners Signature, for "Date" read "Dated";

- (a) item 6, add "Navigational" before "Watch Keeping";
- (b) item 7(iv), for "Singals" read "Signals";
- (c) item 9, line 3, for "by" read "be";

At page 104--

(77) In appendix "J"--

- (a) Sl. No. 7,, line 1, for "Syllabuses" read "syllabi";
  - (b) Sl. No. 9, line 1,--
    - (i) for "ship" read "ships";
    - (ii) for "one" read "arc";
  - (c) sl. No. 12, line 2, for "aprecise" read "a precise"
  - (d) Sl. No.14, for "paper" read "improper";
  - (e) below item 14, line 2, for "More" read "Mere";
  - (f) below item 14, line 3, for "graps" read "grasps";
  - (g) below item 14, line 4, for "Through" read "Thorough";
- (78) In Section-II, Second Mate (Foreign-Going), Part-A (Written), (1) Nautical Physics--

(a) item (ii) Vectors—line 3, for "or" read "of";

At page 105--

- (b) In Motion, line 1, for "Curviliner" read "Curvilinear";
- (c) in Rotation, line 3, for "Procession" read "Precession";
  - (d) In Surface Tension, line 3, add "of" between "Superssion" and "tidal";

At page 106

(e) in Hygrometry—line 6, for "Froast" read "Frost";

- (f) in Transference of heat, line 4, for "brezes" read "breezes";
- (g) in (v) Heat Engines, for "Elementary Ide" read "(Elementary Idea)"

At page 107--

- (h) in (C) light—(ii) Refraction, line 5, for "Haloes" read "Halos";
- (i) in (d) Sound—(i) For "VALOCITY OF SOUND" read "VELOCITY OF SOUND";
- (j) in (e) Magnetism—(i) Magnetic Properties, line 3, for "Hystersis" read "Hysterisis";
- (k) in (e) Magnetism—(ii) Geomagnetism, line 3, for "Isogenic" read "Isogonic";

At page 108--

- (i) in Static Electricity, line 5, for "carging" read "charging";
- (ii) line 1, Semi-colon is required after "application";
- (iii) line 4, for "Tereid" read "Torroid";
- (iv) line 6, for "A.G. Generator" read "A.C. Generator";
- (v) line 9, for "characteristics" read "characteristics"
- (vi) line 16, add "breaker devices used in electric circuits" between "Circuits" and "their"

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(79) Nautical Mathematics

- (a) in (e) Trigonometry—(i), line 1, for "formulas" read "formulae"
- (b) line 9, for "Cos ( ) = Sin" read "Cos= -Sin";

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- (c) in (f) Spherical Trigonometry,--
  - (i) in line 3, for "Formulae" read "formula"; and for "Napear's" read "Nepear's";
  - (ii) in line 4, for "quadrantel" read "quadrantal"
- (d) in Part 'B' (Written). General ship Knowledge--
  - (i) in (b), line 3, for "sheers" read "sheer";
  - (ii) in (c), line 1, add "of" between "prevention" and "corrosion";
  - (iii) in (e), line 4, for "Leadweight" read "lightweight";

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- (iv) in (f), line 1, for "definitions" read "definitions";
- (v) in (g), line 12, add "sea" between "and" and "temperature";

(80) 5. Meteorology--

- (a) in (b), line 2, for "Barometric" read "Barometric"

At page 113---

- (b) in (d), Visibility, line 3, for "log" read "fog"
- (c) in (f), Pressure gradient and wind-line 4, for "guest" read "gust";

(81) in Part "C", Practical Navigation--

- (a) in (a), line 1, for "Mercafor" read "Mercator";

At page 114--

- (b) in (h), line 4, for "or" read "of";
- (c) in (h), line 5, for "stems" read "streams"
- (d) in (i)(iii), line 2, for "routing" read "routeing";

(82) in 8. Principles of Navigation--

- (a) item (b), line 1, for "on" read "of";
- (b) item (e), sub-para (b)--
  - (i) line 6, for "manoeuvring" read "manoeuvring";
  - (ii) line 7, for "ringing" read "bringing"
  - (iii) item (e), sub-para (c), line 2, for "loads" read "roads"
  - (iv) item (e), sub-para (g), line 3, for "lifelifths" read "liferrafts";
  - (v) item (e), sub-para (g), line 4, for "peading" read "Tending";
  - (vi) item (e), sub-para(g), line 5, for "cars" read "Oars";
  - (vii) item (e), sub-para (g), line 6, for "deaching" read "beaching";

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- (viii) item (e), sub-para (g), line 2, "Mariner's" read "Mariners";

(84) FIRST MATE (FOREIGN-GOING) PART A, 11. Radio and Electronics--

- (a) sub-para (c) (ii), line 5, for "aeral" read "aerial";
- (b) subpara (c) (ii), line 8, for "goiniometer" read "goniometer";

- (c) sub-para © (iii), line 4, for "Centimetter" read "centimeter";
- (d) in sub-para (d), line 2, for "per" read "pen"
- (e) in sub-para (d), line 9, for "magnetic-striction" read "magneto-striction";

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- (85) FIRST MATE (FOREIGN-GOING) PART A, 12. ELECTRICITY- sub-para (e), line 5, for "discripture" read "descriptive";

(86) FIRST MATE (FOREIGN-GOING), PART A, 13. METEOROLOGY OCEAN CURRENTS AND ROUTEING

- (a) in heading, line 2 for ""ROUTING", read "ROUTEING".
- (b) in sub-para (g), line 2, for "routing" read "routeing";
- (c) in sub-para (h), line 2, for "ST. Elms" read "St. Elmo's";

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(87) FIRST MATE (FOREIGN-GOING), PART A, 16. SHIP CONSTRUCTION AND STABILITY, sub-para (i), line 9, for "IMCG" and "IMO";

- (a) in sub-para (e), line 2, for a "ad" read "and";
- (b) in sub-para (c), line 2, for "IMCO" read "IMO";
- (c) in sub-para (d), line 12 and 13, delete "carriage of"
- (d) in sub-para (d), line 14, for "Roll-on-rool" read "Roll-on-rell";
- (e) in sub-para (b), line 15, omit "a";
- (f) in sub-para (b), line s5, for "docks" read "decks"
- (g) in sub-para (j), line 1, for "crow" read "crew":

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(89) FIRST MATE (FOREIGN-GOING), PART D, ORALS--

- (a) sub-para (c), line 6, for "Handling" read "Hanging"
- (b) sub-para (d), line 3, for "Bearthin" read "Bearing";
- (c) sub-para (e), line 3, for "trought" read "trough";
- (d) sub-para (i), line 1, for "Classes" read "caases"

(90) MASTER (FOREIGN-GOING) PART "A" 20. SHIP CONSTRUCTION AND STABILITY--

- (a) sub-para (d), line 2, for "rub-division" read "sub-division";
- (b) sub-para (f), line 4, for "oven peets" read "even keels";

- (c) sub-para (f), line 6, for "ships" read "ship's";
- (d) sub-para (g), line 3, for "stability to" read "stability at";
- (e) sub-para (g), line 3, for "largest" read "large";
- (f) sub-para (g), line 5, for "of" read "on"; between "curve" and "dynamical";

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- (g) sub-para (i), line 1, for "inclining" read "inclining";
  - (h) sub-para (i), line 1, add "of" between "production" and "curves";
- (91) in 21. COMMERCIAL AND LEGAL KNOWLEDGE AND SHIP MANAGEMENT,
- (a) sub-para (d), line 5, for "Trades" read "Trade";

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- (92) in 22. RADIO AND ELECTRONIC AIDS TO NAVIGATION--
- (a) sub-para (c), line 4, for "advanate" read "advantage";
  - (b) sub-para (c), line 14, for "D.M." read D.F.
  - (c) sub-para ©, line 18, for "quadantal" read "quadrantal";
  - (d) sub-para (d), line 5, for "characteristics" read "characteristics";
  - (e) in sub-para (c), line 3, for "navigations" read "navigation"

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- (93) in 23. ENGINEERING KNOWLEDGE, INSTRUMENTS AND CONTROL, SYSTEM--
- (a) sub-para (d), line 2, for "including" read "including";
  - (b) sub-para k(ii), line 1, for "censor" read "sencor";

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- (94) in 24. Magnetism. Magnetic and Gyro Compasses--
- (a) sub-para (a), line 3, for "plans" read "plane";
  - (b) sub-para (a), line 100 add "of" between the words "Methods" and "obtaining";
  - (c) sub-para (d), line 6, for "deflection" read "deflection";
- (95) in 25, Safety Carriage of Goods and Ship Maintenance--
- (a) sub-para (b), line 1, for "Carriagge" and "Carriage"
  - (b) sub-para (c), line 2, for "IMCO" read "IMO";



- (c) sub-para (D), line 1, for "Stewage" read "stowage";
- (d) sub-para (d), line 4, for "calcutation" read "calculation";
- (e) sub-para (d), line 7, for "stewage" read "stowage";
- (f) sub-para (d), line 14, for "of" read "off" between "roll" and "vessels";
- (g) sub-para (d), line 14, omit "a"
- (h) sub-para (e), line 3, for "dumping" read "pumping";
- (i) sub-para (e), line 8, for "petroteum" read "petroleum";
- (j) sub-para (h), line 4, for "woodkwork" read "wood work";
- (k) sub-para (h), line 5, for "docks" read "decks";

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(96) in 26, Orals and Practicals--

- (a) sub-para (c), line 2, for "or" read "on"
- (b) sub-para (d), line 3, for "whether" read "weather";
- (c) sub-para (d), line 7, for "Manoeuvring" read "Manoeuvering";
- (d) sub-para (d), line 8, for "spuat" read "s"
- (e) sub-para (d), line 20, for "through" read "trough";
- (f) sub-para (d), line 21, for "manoeuvring" read "manoeuvering";
- (g) sub-para (d), line 29, add "other ships" between "and" and "caused";
- (h) sub-para (f), line 3, for "shifting" read "shafting";
- (i) sub-para 2, omit "Extra Master";
- (j) sub-para 2, omit "Extra Master";

(97) In 27, Mathematics--

- (a) line 3, for "In qualities" read "Inequalities";
- (b) sub-para "Sequences and Series", line 2, for "expenential" read "exponential";
- (c) sub-para "Applications of differentiation" for "extrema" read "extremes" and for "Charge" read "change";
- (d) in the para below "Successive differentiation" for "invce" read "inverse"

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- (c) in para above the heading "Mechanics & Statistics" for "in one" read "with one";
- (98) (a) in the topic "MECHANICS AND STATISTICS"—line 24, the para beginning with "Shearing force", for "distributed" read "distributed";
- (b) in the topic "MECHANICS AND STATISTICS", line 24, the para beginning with "Angular Momentum", for "knetetic" read "kinetic";
- (99) in 28, Physics--
  - (a) Heat, line 2, for "knetetic" read "kinetic";
  - (b) Heat, line 4, for " $p = \mu^3 \text{ pc}^2$ " read " $p = \mu^3 \text{ pc}^2$ ";
  - (c) Heat, line 6, for "kinotic" read "kinetic";
  - (d) Heat line 12, for "atmicity" read "atomicity";
  - (e) Heat, line 14, for "adiatic" read "adiabatic";
  - (f) in waves, line 2, for "resonane" read "resonance";
  - (g) in waves, line 5, for "Superposition" read "superimposition";
  - (h) in Light, line 1, omit "of" between "knowledge" and "and";
  - (i) line 2, for "reflexion" read "reflection";
  - (j) line 5, omit "of" between "knowledge" and "and";
  - (k) line 8, for "exit" read "eye";
  - (l) line 9, for "eve" read "eye";

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- (100) in Refraction and Dispersion of Prism, line 3, for "connecting" read "concerning";
- (101) Below Spectra and Colour, line 1, for "flus" read "flux";
- (102) Below Spectra and Colour, line 2, for "photovoltaic" read "photovoltaic";
- (103) Below "non-reflecting films, blooming, for "Diffractive" read "Diffraction";
- (104) in Natural Phenomena, etc. for "hale" read "halo";
- (105) Below Sound, line 1, for "rods" read "solids";
- (106) Below Sound, line 3, for "Reflextion" read "Reflection";
- (107) Below Sound, line 7, for "ar-borne" read "air-borne";
- (108) In Part-B, 29, INTERNATIONAL MARITIME AGREEMENTS AND LEGAL KNOWLEDGE--

- (a) line 3, for "IMCO Conventions" read "IMO Conventions" and print on next line;
- (b) sub-para (a)(i), line 1, for IMCO read "IMO";
- (109) in Part-B, topic 5, omit "SECTION B";
- (110) in Part-B, topic 6(a). Crew, Line 7, for "(iv) read "(vi)"
- (111) in 30. MARINE ENVIRONMENTAL STUDIES--
  - (a) Section A, Meteorology, sub-para (ii), line 1, for "geostrophic" read "geostrophic";

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- (b) 2, Ocenography, sub-para (i), line 2, for "Coastilines" read "Coastlines";
- (112) in Section B, 2—Sea Surveying--
  - (a) line 3, for "Section" I, read "Section A";
  - (b) in sub-pra (iii), for "sonal" read "Sonar";
- (113) in Part C, 31. NAVAL ARCHITECTURE--
  - (a) Section A, 1, line 5, for "buyoncy" read "buoyancy";
  - (b) line 6, for "buyoncy" read "buoyancy";
  - (c) Section A-2,
    - (i) line 2, for "BMt-lt/V" read "BM=1/V"
    - (ii) ;ome 7, for "Criteron" read "Criterion";
  - (d) Section A-3, for "BM1-IV" read "BML=I/V";
  - (e) Section A-6--
    - (i) line 2, for "crack" read "track"
    - (ii) line 3, omit "of";
    - (iii) line 3, for "chans" read "chains";

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- (f) Section A-8, line 3, for "vessel" read "vessels";
- (g) Section A-9, line 1, for "Manoeurving" read "Manoeuvering";
- (h) Section A-9, line 10, for "Capasizing" read "capsizing"
- (i) Section B, "Safety in Design", line 3, for "vessel" read "vessels"
- (114) in 32. NAVIGATIONAL AIDS—item 5, line 6, for "casultaties" read "casualties";

(115) in 33. NAVIGATION--

- (a) Section A-1, line 2, for "principlas" read "principles";
- (b) Section A-2, line 1, for "formulate" read "formulae"

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- (c) Section A-3, item (e), for "Sterographic" read "Stereographic";

(116) in Section-V, Watch Keeping Officer,

Part-A.

#### 1.ELEMENTARY PHYSICS

- (a) line 6, for "laminar" read "lamina";
- (b) in item b, line 4, for "flotation" read "floatation";
- (c) in item c, Heat, line 1, for "Kelvin" read "Kelvin";
- (d) in item c. Heat, line 2, for "Maharenheit" read "Fatharenheit";
- (e) in line 3, for "or" read "of";
- (f) item d, Light, line 3, for "agnles" read "angles";

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(117) 2. Elementary Mathematics, item (c), line 3, for "parallelograms" read "parallelograms";

(118) in Part D, line 1, omit "and pilotage";

(119) in Part E, item 9, line 1--

- (i) add "Signals" before "Syllabus";
- (ii) for "is" read "shall be"

(120) in MATE (HOME TRADE)—Part A, 10. Practival Navigation—line 4, for "Goreign" read "Foreign"

(121) (a) in MATE (HOME TRADE) – Part B, item (h), line 1, omit "a" between "righting" and "couple";

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- (b) item j, line 5, for "behavious" read "hehaviour"
- (c) in 14. Safety Carriage of Goods and Ship Maintenance line 8, for "IMCO" read "IMO";
- (d) in 14(b), line 8, for "refrigerated" read "refrigerated";
- (e) in 14(b), line 12, omit "a";

- (f) in 14(d), line 2, for "freeding" read "freeing";
- (g) in 14(e), line 1, for "ad" read "and";
- (122) in 3. Electricity, item (d), for "Magnetosiction" read "Magneto-striction";
- (123)(a) in 3, Gyro-Compass, item(a), line 3, for "earth's read "earth's";
- (b) in line 4, for "Procession" read "Precession";
- (c) in 4, Gyro-Compass, for "item (d)" read "item (b)";
- (d) in item "b", line 3, for "compass" read "compasses";

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(124) Master (Home Trade), 19. Elementary Engineering Knowledge and Radio Navigational Aids--

- (a) item 1, Elementary Engineering Knowledge, line 3, for "stream" read "steam";
- (b) item 2, Electronic Navigational Aids,--
- (i) in (a) (ii), line 10, add "of" between "application" and "data";
- (ii) in (b)(i), line 9, for "qualify" read "quality";

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- (iii) in (c), Direction Finding, line 2, for "diagrams" read "diagram";
- (125) in 20, Ship Construction and Stability--
- (a) after sub-para (e), for "(b) in stability and trim when dry docking read "(f)";
- (b) in line 4, for "Dock" read "Deck";
- (c) item (g), line 1, for "production" read "production";
- (d) Part B, Orals, line 1, for "syllabuses" read "syllabus";

[F.No.SW/5-MSR(13)/79-MA]  
R.SNEHI, Under Secy.