

Government of India
Ministry of Communications and Information Technology
Department of Telecommunication
(Wireless Planning and Coordination Wing)

Subject: Revision of syllabus and procedure of examination for award for Amateur Station Operator' license and preparation of question bank.

Sir,

I am directed to refer to the above subject and to inform that WPC Wing is in the process of revising the syllabus and procedure of examination for award for Amateur Station Operator' license. This is with respect to the implementation of the Amendment No. G.S.R 385(E), dated 9th June 2005 in the Indian Wireless Telegraphs (Amateur Service) Rules 1978.

2. The amendment No. G.S.R 385(E) was made based on the recommendation of the Empowered committee under the chairmanship of Chairman (TC) which met on 16th September 2004 and vide approval of Hon'ble MOC&IT. The main changes were:-

- 2.1 Validity of licence.
- 2.2 Examination and licence fee.
- 2.3 Reducing the category of licence from 5 to 2 and,
- 2.4 Fees for mobile use, duplicate licence and renewal slip.

Further with regards to the 2005 notification, following points needs to be mentioned.

- a) As per 1978 Rules there were 4 categories of licences, namely:-
 - i. Advance Grade
 - ii. Grade I
 - iii. Grade II (Including Restricted Grade)
 - iv. Short Wave Listeners.

Vide the amendment 2005, the above 4 categories have been made in to TWO categories, namely **General**, and **Restricted**.

The main issues dealt in the 2005 amendment are tabulated as under:-

Sl no	Category	Existing	As per Amendment
1	No of categories	4+1 1. Adv. Grade 2. Gr.I. 3. Gr.II. 4. Gr.II(R) 5. SWL	2. 1. General. 2. Restricted.
2	Examination Fee	---	Rs.100/- for both grades.
3	Period of Validity	2 and 5 years	20 years and lifetime.
4	Licence Fee	---	Rs.1000/- for 20 years and Rs. 2000/- for lifetime for both grades.
5	Renewal.	---	20 years and Rs.1000/-
6	Period of late renewal and surcharge.	2 Years. Rs.10/-	5 Years. Rs.100/-
7	Fee for change of location:	Rs. 5/-	Rs.200/-
8	Fee for mobile endorsement:	Rs. 10/-	Rs.200/-
9	Fee for issue of duplicate of licence:	Rs. 10/-	Rs. 100/-
10	Fee for issue of duplicate of the document showing the renewal of licence:	Rs. 5/-	Rs. 100/-

3. It may be mentioned that the above amendment did not address issues such as syllabus, technical parameters and centre of examination. A fresh amendment is therefore being proposed to de-link the syllabus of the amateur exams and schedule of examination (App. I and II of Amateur Rules). The syllabus has been revised in view of the new amendment.

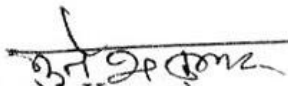
4. It is further informed that, the examination for both the grades may comprise of objective type questions only. A question bank based on the revised syllabus may be prepared and made available to all monitoring stations. It is suggested that software may also be developed to choose questions randomly

depending on the grade and to evaluate the students may also be provided to all monitoring stations. (semi on-line exam)

5. Regarding examination centre, existing procedures may be followed.

6. It is proposed that examination based on the new pattern to be started from Jan 2010 onwards. Once the logistics for conducting the exam, on the basis of new pattern are in place, consent of this Ministry may be sought.

Yours faithfully,


(Munesh Kumar)

Assistant Wireless Adviser

Enclosures: 1. Revised Syllabus.
2. Copy of 2005 notification.
3. Copy of proposed amendment 2009.

DRAFT SYLLABUS

SYLLABUS AND THE DETAILS OF EXAMINATIONS FOR THE AWARD OF AMATEUR STATION OPERATOR'S LICENCE (Restricted) and (General)

1. The examination shall consist of the following two parts:

PART I - Written Test

It shall comprise of one paper containing two sections as under:

Section A: Radio Theory and Practice

Note- Applicants holding degree in Engineering/Science or Diploma in Engineering and having studied electronics or telecommunications shall be exempted from appearing in Section A of Part-I of the test.

Section B: National and International Telecommunication Union (ITU) Radio Regulations applicable to the operation of amateur station and those relating to the working of station generally.

PART II – Morse (Only for General Certificate)

Morse reception and sending (8 wpm)

2. Detailed syllabus:

2.1 Amateur Station Operator's Licence (Restricted) Examination

Part I – Written Test

Section A: Radio Theory and Practice:

(i) Elementary Electricity and Magnetism:

1. Elementary theory of electricity- Passive Devices (Resistors, Inductors, Transformers, Capacitors) and Active Devices (Diodes, Transistors).
2. Kirchoff's current and voltage laws- Simple applications of the law.
3. Conductors and Insulators – Properties, units of circuit elements, Ohm's Law.
4. Conductance – Definition of self and mutual inductance,
5. Power and energy- Definition, Units and simple applications.
6. Permanent magnets and electromagnets – Definition, properties and their use.

(ii) Elementary Theory of Alternating Currents:

1. Sinusoidal alternating quantities – Definition of peak, instantaneous, R.M.S., average values and its simple application.
2. Phase, reactance, impedance, power factor- Definition, units and simple applications.
3. Parallel and Series Circuits - series and parallel circuits containing resistance, inductance, capacitance, resonance in series and parallel circuits, coupled circuits.
4. Rectifiers, voltage regulation and smoothing circuits - Their basic knowledge and simple application.

(iii) Elementary theory of Semiconductor Devices:

1. Diodes and transistors- Properties use of these devices for construction of amplifiers, oscillators, detectors and frequency changers.

(iv) Radio Receivers :

1. Principles and operation of T.R.F. and super heterodyne receivers.
2. CW reception.
3. Receiver characteristics-sensitivity, selectivity, fidelity, adjacent channel and image interference, A.V.C. and squelch/circuits, signal to noise ratio.

(v) Transmitter :

1. Principles and operation of low power transmitter, crystal oscillators, stability of oscillators.
2. Basic knowledge about construction of Semiconductor based transmitters.

(vi) Radio Wave Propagation:

1. Basic knowledge of Electromagnetic Spectrum.
2. Wave length, frequency, frequency bands.
3. Nature and propagations of radio waves, ground and sky waves, space waves, skip distance, skip zone and fading.

(vii) Aerials: Common types of transmitting and receiving aerials.

(viii) Frequency Measurement: Measurement of frequency and use of simple frequency meters.

Section B: Radio Regulations:

- (a) Knowledge of :- (i) the Indian Wireless Telegraph Rules, 1973.
(ii) the Indian Wireless Telegraphs (Amateur Service) Rules, 1978 and amendments.
(b) Knowledge of ITU Radio Regulations as relating to the operation of amateur stations with particular emphasis on the following:

Item	Provision of Radio Regulation (2008 edition)
Designation of Emission.	Appendix-I
Phonetic alphabets and figure code.	Appendix 14
Nomenclature of the Frequency & Wavelength.	Article 2
Frequency allocation for Amateur Services.	Article 5
Interference, measures against interference & tests.	Article 15
Identification of Stations.	Article 19.
Distress Signal, Call and Message. Transmissions.	Article 30, 31, 32 & 33.
Urgency Signal, Call and Message Transmissions.	Article 30, 31, 32 & 33.
Amateur Station.	Article 25
Call Sign series allocated to India.	Appendix 42

(c) Standard Frequency and Time Signals Services in the World.

(d) The following 'Q' codes and abbreviations shall have the same meaning as assigned to them in the Convention.

QRA, QRG, QRH, QRI, QRK, QRL, QRM, QRN, QRQ, QRS, QRT, QRU, QRV, QRW, QRX, QRZ, QSA, QSB, QSL, QSO, QSU, QSV, QSW, QSX, QSY, QSZ, QTC, QTH, QTR, and QUM.

Abbreviations: AA, AB, AR, AS, C, CFM, CL, CQ, DE, K, NIL, OK, R, TU, VA, WA, WB.

Note: -

1. The written test will be of **one hour** duration. The maximum marks will be 100 and candidate must secure at least **40 %** in each section and **50%** in aggregate for a pass.
2. There will be **NO Morse test for restricted grade.**

2.2. Amateur Station Operators' Licence (General) Examination

Part I - Written Test

Section A: Radio Theory and Practice

In addition to the syllabus prescribed for Amateur Station Operator's License (Restricted) examination, following items shall be included in the syllabus of Amateur Station Operators' license (General) examinations:-

(i) Principles of Communications:

1. Elementary idea of analog and digital communication.
2. Need for modulation; Modulation- amplitude, frequency and pulse modulation.
3. Elementary idea about demodulation.

(ii) Alternating current:

1. Basic concepts on construction of transformers.
2. Definition of Transformer losses.
3. Transformer as a matching device

(iii) Semi Conductor devices and Transistors:

1. Elementary principles of conduction and construction;
2. Symbols and biasing methods.

(iv) Power Supplies:

1. Basic knowledge of half wave and full wave rectifiers.
2. Definition and application of Bridge rectifier, smoothing and regulating circuits.

(vii) Transmitters and Receivers:

1. Elementary principles of transmission and reception of Facsimile and Television signals,

(viii) Propagation:

1. Characteristics of ionosphere and troposphere.
2. Properties of ionosphere layers.
3. Critical frequency and day / night frequencies.

(ix) Aerials:

1. Principles of radiation.
2. Aerials for different frequency bands including aerials for microwave,

(x) Space Communications:

1. Elementary principles of communication via satellites.

Section B: Radio Regulations:

Same syllabus as prescribed for Amateur Station Operators' License (Restricted) examination.

The above written test will be of **two hour** duration. The maximum marks will be 100. A candidate must secure at least 50 % in each section and 60% in aggregate for a pass.

Part II - Morse

Morse receiving: (Speed: 8 words per minute)

The test piece will consist of a plain language passage of 200 characters which may comprise of letters, figures. Test piece may also contain the following punctuations ie full stop; comma; semi colon; break-sign; hyphen and question mark. The average words shall contain five characters and each figure and punctuation will be counted as two characters. The test will be for five consecutive minutes at a speed of 8 words per minute. A short practice piece of one minute shall be sent at the prescribed speed before the start of the actual test. Candidates will not be allowed more than one attempt in Morse reception and sending test. The test may be written in ink or pencil but must be legible. Over-writing will be treated as error. If any correction is required the candidate may struck the wrong character and write the correct above the character. More than 5 errors will disqualify a candidate. However if a candidate receives without any error in any part of the passage continuously for one minute duration will be declared successful in the Morse reception test.

Morse Sending (Speed: 8 words per minute)

The test piece will be similar to Morse Receiving test for Amateur Station Operators' License (General) examination. Candidates are required to send for five consecutive minutes at a speed not less than 8 words per minute. Other conditions are the same as applicable to Amateur Station Operators' License (General) examination.

Note- A candidate shall have to pass both receiving and sending simultaneously.



भारत का राजपत्र The Gazette of India

असाधारण
EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (i)
PART II—Section 3—Sub-section (i)

प्राधिकार से प्रकाशित
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संचार और सूचना प्रौद्योगिकी मंत्रालय

(बेतार योजना और समन्वय)

अधिसूचना

नई दिल्ली, 9 जून, 2005

सा.का.वि. 385(अ).—केन्द्रीय सरकार, भारतीय तार अधिनियम, 1885 (1885 का 13) की धारा 4 और धारा 7 द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए, भारतीय बेतार-तार यांत्रिकी (प्रेयानुशीली सेवा) नियम, 1978 का और संशोधन करने के लिए, निम्नलिखित नियम बनाती है, अर्थात् :—

1. संक्षिप्त नाम और प्रारंभ.—(1) इन नियमों का संक्षिप्त नाम भारतीय बेतार-तार यांत्रिकी (प्रेयानुशीली सेवा) संशोधन नियम, 2005 है।
(2) ये राजपत्र में प्रकाशन की तारीख को प्रवृत्त होंगे।

2. भारतीय बेतार-तार यांत्रिकी (प्रेयानुशीली सेवा) नियम, 1978 (जिसे इसमें इसके पश्चात् 'उक्त नियम कहा गया है'), नियम 4 के स्थान पर निम्नलिखित नियम रखा जाएगा, अर्थात् :—

"4. अनुज्ञप्तियों के प्रवर्ग : अनुज्ञप्तियों के दो प्रवर्ग होंगे, अर्थात् :—

- (i) प्रेयानुशीली बेतार-तार केन्द्र अनुज्ञप्ति (साधारण)
- (ii) प्रेयानुशीली बेतार-तार केन्द्र अनुज्ञप्ति (निर्बंधित)।"

3. उक्त नियम के नियम 5 में,—

(क) उपनियम (1) के परन्तुक में, "केन्द्र अनुज्ञप्ति श्रेणी-2" शब्द और अंकों के स्थान पर "केन्द्र अनुज्ञप्ति (निर्बंधित)" शब्द और कोष्ठक रखे जाएंगे।

(ख) उपनियम (2) में, "उपनियम (1) के खण्ड" से प्रारंभ होने वाले और "अनुदत्त कर सकती है" से समाप्त होने वाले शब्दों, कोष्ठकों, अक्षरों और अंकों के स्थान पर निम्नलिखित शब्द, कोष्ठक, अक्षर रखा जाएगा, अर्थात् :—

"उपनियम (1) के खण्ड (ख) में किसी बात के होते हुए भी, केन्द्रीय सरकार 12 से 18 वर्ष के मध्य की आयु के वास्तविक प्रयोगकर्ताओं को प्रेयानुशीली बेतार-तार सेवा केन्द्र अनुज्ञप्ति (साधारण) या प्रेयानुशीली बेतार-तार केन्द्र अनुज्ञप्ति (निर्बंधित) अनुज्ञप्ति अनुदत्त कर सकती है :—"

4. उक्त नियम के नियम 7 में,—

(क) खण्ड (ख) के स्थान पर निम्नलिखित खण्ड रखा जाएगा, अर्थात् :—

“(ख) ऐसे व्यक्ति निम्नलिखित मापमान पर फीस का संदाय करेंगे, अर्थात् :”

(i) प्रेयानुशीली केन्द्र प्रचालन परीक्षा (साधारण) — 100/- रुपए

(ii) प्रेयानुशीली केन्द्र प्रचालन परीक्षा (निर्बंधित) — 100/- रुपए

(ख) खण्ड (ग) का लोप किया जाएगा।

5. उक्त नियम के नियम 8 के उपनियम (2) के स्थान पर निम्नलिखित नियम रखा जाएगा, अर्थात् :—

“(2) इन नियमों के उपाखण्ड-2 में अनुज्ञप्ति के लिए कोई आवेदन, वांछित परीक्षा की तारीख से पूर्व एक मास के अपश्चात् नहीं किया जाएगा।”

6. उक्त नियम के नियम 11 के स्थान पर निम्नलिखित नियम रखा जाएगा, अर्थात् :—

“11. विधिमाम्यता की अवधि—(1) इन नियमों के अधीन अनुदत्त कोई अनुज्ञप्ति, अनुज्ञप्ति के प्रारम्भ की तारीख से बीस वर्ष या जीवनपर्यन्त की अवधि के लिए जारी किया जाएगा और जारी किए जाने के माह के पूर्ववर्ती माह की अंतिम तारीख को अवसान होगा।

स्पष्टीकरण :—इस नियम के प्रयोजनों के लिए “जीवनपर्यन्त” पद से अनुज्ञप्तिधारक का 80 वर्ष की आयु प्राप्त होना अभिप्रेत है।

(2) जीवनपर्यन्त अनुज्ञप्ति की विधिमाम्यता अनुज्ञप्तिधारक के विनिर्दिष्ट अनुरोध पर बिना किसी अतिरिक्त संदाय के एक समय पर 10 वर्ष के लिए विस्तार किया जा सकता है।”

7. उक्त नियम के नियम 12 में उपनियम (1) के स्थान पर निम्नलिखित उपनियम रखा जाएगा, अर्थात् :—

“(1) केन्द्रीय सरकार के अनुदेश प्राप्त होने पर और उसके द्वारा निदेशित रीति से अनुज्ञप्ति फीस उस सरकार को निम्नलिखित मापमान के अनुसार संदेय होगी :—

अनुज्ञप्ति का प्रवर्ग	फीस रुपए में	
	20 वर्ष	जीवनपर्यन्त
(i) प्रेयानुशीली बेतार-तार सेवा केन्द्र अनुज्ञप्ति (साधारण)	1000	2000
(ii) प्रेयानुशीली बेतार-तार सेवा केन्द्र अनुज्ञप्ति (निर्बंधित)	1000	2000”

8. उक्त नियम के नियम 14 के उपनियम (1) में :—

(क) “यथास्थिति, दो या पांच वर्ष” शब्दों के स्थान पर “बीस वर्ष” शब्द रखे जाएंगे ;

(ख) खंड (ग) के स्थान पर निम्नलिखित खण्ड रखा जाएगा, अर्थात् :—

“(ग) 1000/- रुपए फीस संदाय करेगा”.

9. उक्त नियम के नियम 15 में,—

(i) “दो वर्ष” शब्दों के स्थान पर “पांच वर्ष” शब्द रखे जाएंगे;

(ii) “दस रुपए” शब्दों के स्थान पर “सौ रुपए” शब्द रखे जाएंगे;

10. “उक्त नियम के नियम 17 के परंतुक में “पांच रुपए” शब्दों के स्थान पर “दो सौ रुपए” शब्द रखे जाएंगे।”

11. उक्त नियम के नियम 18 के उपनियम (1) में,—

(क) खंड (ii) के स्थान पर निम्नलिखित खण्ड रखा जाएगा, अर्थात् :—

“(ii) आवेदक, प्रेयानुशीली बेतार-तार केन्द्र अनुज्ञप्ति (साधारण) धारक हो;”

(ख) खण्ड (iii) में “10 रुपए” अकों और शब्दों के स्थान पर “200/- रुपए” शब्द और अंक रखे जाएंगे।

12. उक्त नियम के नियम 20 के उपनियम (2) में,—

(क) खण्ड (i) में “10/- रुपए” अकों और शब्दों के स्थान पर “100/- रुपए” अंक और शब्द रखे जाएंगे।

(ख) खण्ड (ii) में “5/- रुपए” अकों और शब्दों के स्थान पर “100/- रुपए” अंक और शब्द रखे जाएंगे।

[फ. सं. एल.-14011/255/2004-एएमटी]

सी. रामारण, सहायक बेतार सलाहकार

टिप्पण : मूल नियम भारत के राजपत्र, भाग II, खंड 3, उप-खण्ड (i) में अधिसूचना सं. सा.का.नि. 1499/78 तारीख 25 अक्टूबर, 1978 द्वारा प्रकाशित किए गए थे और सं. सा.का.नि. 1225, तारीख 17 अक्टूबर, 1984 द्वारा संशोधित किए गए।

GOVERNMENT OF INDIA
MINISTRY OF COMMUNICATIONS AND INFORMATION TECHNOLOGY
(Wireless Planning and Co-ordination)
NOTIFICATION

New Delhi, dated the, 2009

G.S.R. -..... In exercise of the powers conferred by sections 4 and 7 of the Indian Telegraph Act, 1885 (13 of 1885), the Central Government hereby makes the following rules further to amend the Indian Wireless Telegraphs (Amateur Service) Rules, 1978, namely:-

1. (1) These rules may be called the Indian Wireless Telegraphs (Amateur Service) Amendment Rules, 2009.
(2) They shall come into force on the date of their publication in the Official Gazette.

2. In the Indian Wireless Telegraphs (Amateur Service) Rules, 1978 (hereinafter referred to as the said rules), in rule 8,-

(a) for sub rule (1), the following sub rule shall be substituted, namely:-

"The examinations for the grant of licence as per syllabus shall be held at a place and on a date as may be notified by the Central Government from time to time." ;

(b) the Note occurring at the end shall be omitted.

3. In rule 13 of the said rules, for the words "as are set out in Annexure-V of these rules ", the words "as authorized by the Central Government" shall be substituted.

4. "Appendix-I ", "Appendix-II "and "Annexure-V "annexed to the said rules shall be omitted.

[F. No. L-14011/255/2004-AMT]

(V.J.CHRISTOPHER)

Deputy Wireless Adviser
to the Government of India

Foot note:-

1. The Principal rules were published in the Gazette of India,- Part II, Section 3, Sub-section (i) Vide G.S.R. No. 1499/78, dated the 25th October, 1978 and the last amendment was made vide G.S.R, 385(E), dated the 9th June, 2005.

MINISTRY OF COMMUNICATIONS AND INFORMATION TECHNOLOGY

(Wireless Planning and Co-ordination)

NOTIFICATION

New Delhi, the 9th June, 2005

G.S.R. 385(E).— In exercise of the powers conferred by sections 4 and 7 of the Indian Telegraph Act, 1885 (13 of 1885), the Central Government hereby makes the following rules further to amend the Indian Wireless Telegraphs (Amateur Service) Rules, 1978, namely:-

1. Short title and commencement- (1) These rules may be called the Indian Wireless Telegraphs (Amateur Service) Amendment Rules, 2005.

(2) They shall come into force on the date of their publication in the Official Gazette.

2. In the Indian Wireless Telegraphs (Amateur Service) Rules, 1978 (hereinafter referred to as 'the said rules'), for rule 4, the following rule shall be substituted, namely:-

"4. Categories of licence: There shall be two categories of licences, namely;-

- (i) Amateur Wireless Telegraph Station Licence (General)
- (ii) Amateur Wireless Telegraph Station Licence (Restricted)."

3. In rule 5 of the said rules,-

(a) in sub-rule (1), in the proviso, for the words and figure "Station Licence Grade- II", the words and brackets "Station Licence (Restricted)" shall be substituted;

(b) in sub-rule (2), for the portion beginning with the words "Notwithstanding any thing contained" and ending with the words, "Short Wave Listners' Amateur Wireless Telegraph Station Licence:", the following words, brackets and letters shall be substituted, namely:-

"Notwithstanding anything contained in clause (b) of sub-rule (1), the Central Government may grant to bonafide experimenters between the age of 12 and 18 years, Amateur Wireless Telegraph Station Licence (General) or Amateur Wireless Telegraph Station Licence(Restricted):".

4. In rule 7 of the said rules, -

(a) for clause (b), the following clause shall be substituted, namely:-

"(b) such person pays the fees on the following scale, namely :

- (i) Amateur Station Operators' Examination (General) - Rs. 100/-
- (ii) Amateur Station Operators' Examination (Restricted) - Rs. 100/-"

(b) clause (c) shall be omitted.

5. In rule 8 of the said rules, for sub-rule (2) the following sub-rule shall be substituted, namely :-

"(2) An application for licence in Annexure-II to the rules shall be submitted not later than one month before the date of desired examination."

6. For rule 11 of the said rules, the following rule shall be substituted, namely:-

"11. Period of Validity- (1) A licence granted under these rules shall be issued for a period of 20 years or lifelong as the case may be commencing on the date of issue of the licence and expiring on the last day of the month preceding the month of issue.

Explanation:- For the purposes of this rule, the expression "life long" means till the licence holder attains the age of 80 years.

(2) Validity of lifelong licence may be extended on specific request of the licence holder for 10 years at a time without any additional payment."

7. In rule 12 of the said rules, for sub-rule(1), the following sub-rule shall be substituted, namely : -

"(1) A licence fee on the following scale shall be payable to the Central Government on receipt of instructions from that Government and in the manner directed by it:-

Category of licence	Fees in Rupees	
	20 Years	Life long
(i) Amateur Wireless Telegraph Station Licence (General)	1000	2000
(ii) Amateur Wireless Telegraph Station Licence (Restricted)	1000	2000

8. In rule 14 of the said rules, in sub-rule (1):-

(a) for the words "two or five years, as the case may be," the words "twenty years," shall be substituted;

(b) for clause (c), the following clause shall be substituted, namely:-

"(c) Pays a fee of Rs. 1000/-"

9. In rule 15 of the said rules,-

(i) for the words "two years", the words "five years" shall be substituted;

(ii) for letters and figures "Rs10/-", the letters and figures, "Rs100/-" shall be substituted "

10. In the said rules, in the proviso of rule 17, for the words "rupees five", "Rs.200/-" shall be substituted .

11. In the rule 18 of the said rules, in sub-rule (1),

(a) for clause (ii), the following clause shall be substituted namely:-

"(ii) the applicant holds an Amateur Wireless Telegraph Station Licence (General)"

(b) in clause (iii), for the letters and figures "Rs. 10/-", the letter and figures "Rs. 200/-" shall be substituted.

12. In the rule 20 of the said rules, in sub-rule (2) , -

(a) in clause (i), for the letters and figures "Rs. 10/-", the letters and figures "Rs. 100/-" shall be substituted;

(b) in clause (ii), for the letters and figures "Rs. 5/-", the letters and figures "Rs. 100/-" shall be substituted.

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Note : The Principal rules were published in the Gazette of India, Part II, Section 3, Sub-section (i) vide No. G.S.R. 1499/78 dated the 25th October, 1978 and amended vide No. G.S.R. 1225/84 dated 17th October, 1984.