Table 1. The themes and codes of the questionnaire for assessing medical professionalism in mutual environment associated with virtual education of medical sciences

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| Theme | Ethical codes |
| 1. Having information and computer literacy | 1. The ability of finding up-to-date references in Internet websites |
| 1. The ability of distinguishing between credible and non-credible references |
| 1. The ability of managing massive references and data to achieve specialized findings |
| 1. Knowing up-to-date and practical software in line with the needs |
| 1. Proper use of up-to-date software and applications |
| 1. The ability of content analysis in virtual space and identifying its validity |
| 1. Familiarity with different formats of files and methods for converting and modifying them |
| 1. Familiarity with specialized sites and Internet resources and applying them |
| 1. Applying virtual storage spaces for information storage |
| 1. Obeying media rules for benefiting from their virtual space |
| 2. Adhering to professionalism in interpersonal and group communications in the virtual space | 11. Respecting the privacy of individuals in the virtual space |
| 12. Caring for intellectual and cultural values and interests of the Institute in publishing virtual content |
| 13. Measuring the valuability of contents in target groups before sending them |
| 14. Not overdoing bulk sending of contents in beneficiary groups |
| 15. Using suitable language in publishing virtual works and contacts |
| 16. Commitment to group objectives and rules in using social networks |
| 17. Not publishing indecent content in the virtual space |
| 18. Applying an art of discussion and dialogue in collaborative environments |
| 19. Having an art of criticizing and accepting criticism in group virtual environment |
| 20. Commitment to the rules and regulations of mutual space |
| 3. Adhering to professionalism in interpersonal and group communications in the virtual space | 21. Knowing and gaining awareness about the rules and regulations of using virtual spaces |
| 22. Respecting intellectual property (copyright) in using virtual content |
| 23. Acquiring permission from owners of references before using them |
| 24. Professional commitment in business in virtual space |
| 25. Mentioning the names of content owners in citations |
| 26. Not entering illegal information sources |
| 4. Obeying virtual rules and regulations | 27. Knowing the customers and their needs |
| 28. Use of proper technology in advertisements and business |
| 29. Being committed to customers and their needs in advertisements and business |
| 30. Following all instructions and regulations regarding supplying goods and services in electronic environment |
| 5. Caring for personal professionalism | 31. Not creating false and worthless pages and sites in the virtual space |
| 32. Not sharing invalid news and rumors in virtual channels, groups, and spaces |
| 33. Spending a logical amount of time in the web space |
| 34. Not manipulating information in virtual spaces |
| 35. Honesty in disclosing personal identity in the virtual space |
| 36. Not sharing immoral contents and images incongruent with the culture and norms of the society |
| 37. Not publishing invalid contents in the virtual space |
| 6. Healthcare professionalism | 38. Respecting the patient’s rights in the process of diagnosis and treatment in the virtual space |
| 39. Adhering to confidentiality in using patient’s information for education and research |
| 40. Presenting valid documentation in giving virtual advice to the patient and family |
| 41. Responsibility and liability for providing healthcare service to the patient |

Table 2. Correspondence of the information literacy skills with the codes determined in the theme of information literacy

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| **Codes** | Skills |
| **1-2-3-10** | Identifying information needs |
| **1-2-3-8** | Identifying and determining the location and site of information resources |
| **1-2-3-4-5-7-8** | The method of access to information available in references |
| **2-3-6-10** | Qualitative assessment of the obtained information |
| **3-4-5-7-9** | Information organization |
| **3-6-10** | Effective use of information |